

SERVICE MANUAL

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Icom Inc.

INTRODUCTION

This service manual describes the latest information for the IC-2710H at the time of publication.

MODEL	VERSION NO.	VERSION	SYMBOL
	#02	Europe	EUR
	#03	Italy	ITA
IC-2710H	#05	U.S.A.	USA
	#07	Australia	AUS
	#08	Asia	SEA

DANGER

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. Such a connection could cause a fire hazard and/or electric shock.

DO NOT expose the transceiver to rain, snow or any liquids.

DO NOT reverse the polarities of the power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

1180001070 S.IC TA7805F IC-2710H MAIN UNIT 1 piece 8810009140 Screw PH M2.6 x 6 ZK IC-2710H Bottom cover 6 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTES

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- ALWAYS connect a 50 dB or more attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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SECTION 1 SPECIFICATIONS

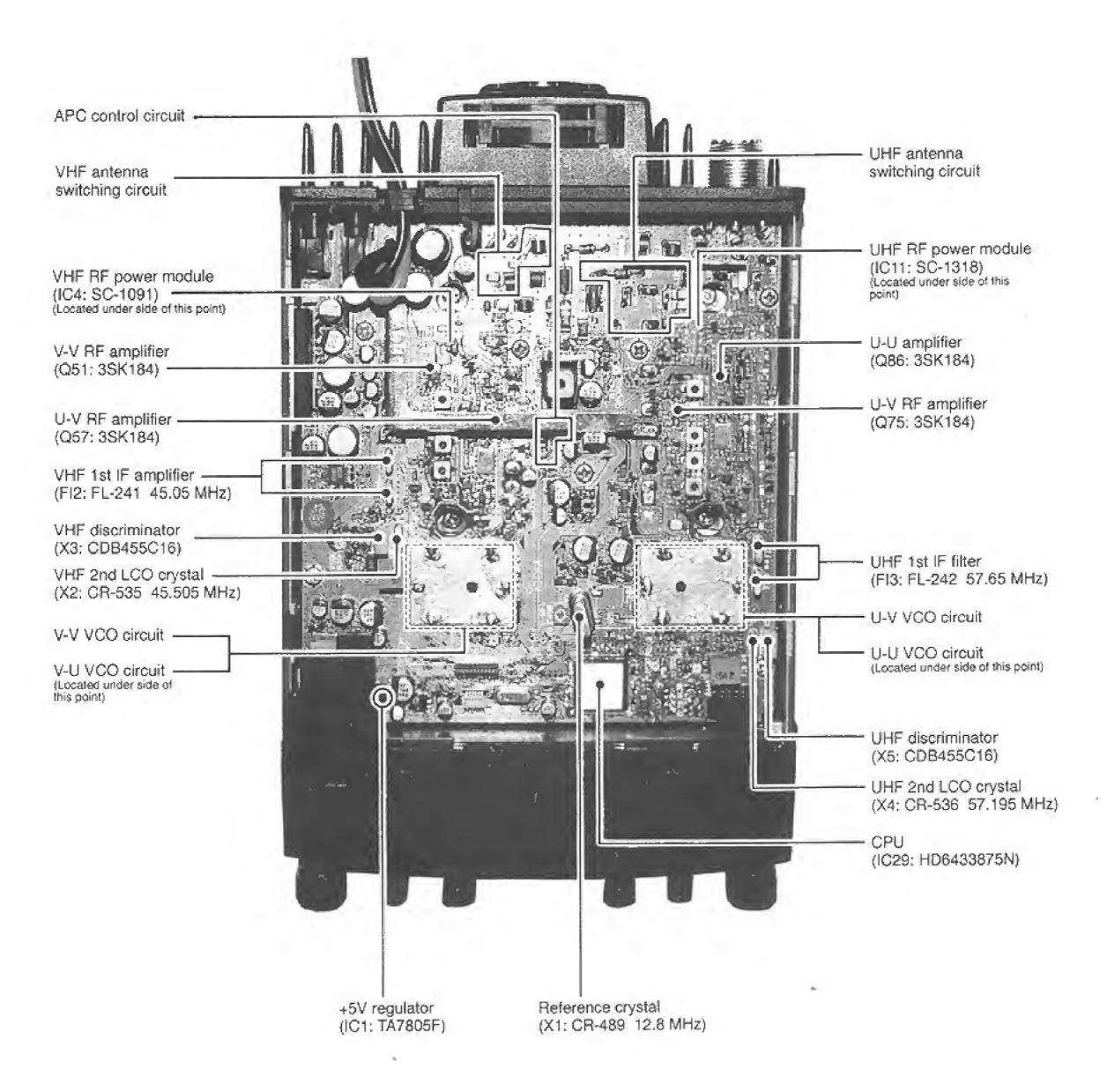
				144 MHz band	430 (440) MHz band			
	Freque covera	•	U.S.A	Tx: 144 MHz–148 MHz Rx: 118 MHz–174 MHz* ¹	440 MHz-450 MHz			
			Europe	144 MHz-146 MHz	430 MHz-440 MHz			
	S.		S.E. Asia	Tx: 144 MHz–148 MHz Rx: 136 MHz–174 MHz* ¹	430 MHz440 MHz			
			Italy	Tx: 144 MHz–148 MHz Rx: 136 MHz–174 MHz* ¹	Tx: 430 MHz-440 MHz Rx: 400 MHz-479 MHz* ²			
			· ·	ency range: * ¹ 144 MHz–148 MHz, * ² 430 MH The avionics band (118–136 MHz) doesn't				
	Mode			FM (F3E), AM (USA Rx	only, 118–136 MHz)			
ار	Freque	ency s	stability	±10 ppm (−10 °C to +60	°C; +14 °F to +140 °F)			
Z	Tuning	step	s	5, 10, 12.5, 15, 20,	25, 30 or 50 kHz			
빙	Extern	al DC	power	13.8 V DC	±15 %			
GENERAL			High power	12.0 A	11.0 A			
	ain /	Tx	Mid. power	6.5 A	6.5 A			
	at dr. 3.8 \		Low power	4.5 A	4.5 A			
	Current drain (at 13.8 \int 13.8 \i		Maximum audio	1.8 A (Both bands at maximum audio.) 1.5 A (Either band squelch closed.)				
			Squelch closed	1.2	A			
	Usable	tem	perature range	−10 °C to +60 °C (+14 °F to +140 °F)				
	Dimensions (Projections not included)			140 (W) \times 40 (H) \times 212.4 (D) mm 5 $^{1}/_{2}$ (W) \times 1 $^{5}/_{8}$ (H) \times 8 $^{3}/_{8}$ (D) in				
	Antenna connector		nector	SO-239 (50 Ω)				
	Weight			1.4 kg; 3.2 lbs				
SMITTER	RF out (at 13.			High : 50 W Mid. : 10 W Low : 5 W	High : 35 W Mid. : 10 W Low : 5 W			
팋	Modula	ation	system	Variable reactance fre				
			ncy deviation	±5.0				
TRAN			nissions	Less than				
片			connector	8-pin modular j				
	Receiv			Double-conversion				
			e frequencies	1st: 45.05 MHz (for VHF display) 2nd: 455 kHz (The sam	, 57.65 MHz (for UHF display)			
۳.	Sensiti	vity		Less than 0.16 μV at (Even during para-	• • • •			
	Squelo	h ser	nsitivity	Less than	0.13 μV			
RECEIVER	Selecti	vity		More than 15 i Less than 30 k				
Œ	Spurio ratio	us an	d image rejection	More than	n 60 dB			
	Audio (at 13.	•	t power	More than 2.4 W at 10 % d	istortion with an 8 Ω load			
	Extern	al spe	eaker connector	2-conductor 3.5 mm (1/8") (8 Ω) ×	2 (for VHF and UHF separately)			

All stated specifications are subject to change without notice or obligation.

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SECTION 2 INSIDE VIEWS

MAIN UNIT



SECTION 3 DISASSEMBLY INSTRUCTIONS

• Remove the cover (Fig.3-1)

Unscrew the one screw A from the bottom cover, then open the cover.

 Use a flat head screw driver or similar flat instrument to lever the bottom cover open via the 2 openings towards the rear.

⚠ **WARNING!** NEVER attempt to open the cover using your finger nails, this may result in injury.

Bottom cover A (black, 6 mm) Fig. 3-1

• Remove the speaker (Fig.3-2)

Disconnect the speaker connector (J3), then lift up the clip part of the speaker plate, (B) in the direction of the arrow.

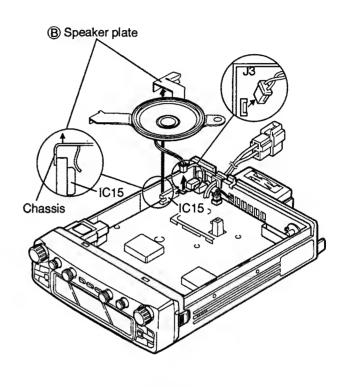
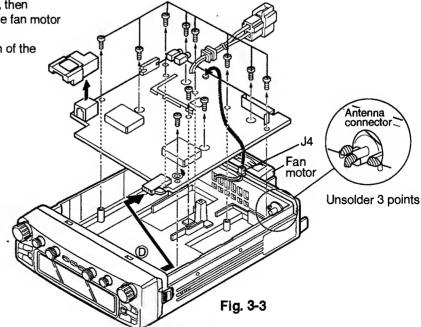


Fig. 3-2

• Remove the MAIN unit (Fig.3-3)

Unsolder 3 points from the antenna connector, then unscrew 11 screws \bigcirc , and then disconnect the fan motor connector (J4).

Remove the MAIN unit to lift up in the direction of the arrow, (1).



© (nickel, 8 mm) x 11

SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

4-1-1 DUPLEXER CIRCUIT

The transceiver has a duplexer (low-pass and high-pass fitters) on the first stage from the antenna connector to separate the signals into VHF and UHF signals. The low-pass filter (L1-L3, C30, C31) is for VHF signals and high-pass filter (L100, L101, C345-C347) is for UHF signals. The separated signals are applied to each RF circuit.

4-1-2 VHF ANTENNA SWITCHING CIRCUIT

The antenna switching circuit functions as a low-pass filter while receiving. However, its impedance becomes very high while transmitting by applying a current to D30 and D31. Thus, transmit signals are blocked from entering the receiver circuits. The passed signals are then applied to the RF amplifier circuit.

4-1-3 VHF RF CIRCUIT

The RF circuit amplifies signals within the range of frequency coverage and filters out-of-band signals.

The signals from the antenna switching circuit are applied to the RF pre-amplifier (Q50) and are then applied to the bandpass filter (L47, L156, C170, C761, C762) via the RF attenuator circuit (D33). The filtered signals are applied to the RF amplifier (Q51) and are then applied to another bandpass filter (D36, D38, D40). The filtered signals are then applied to the RF mixer circuit (Q52).

D36, D38 and D40 track the bandpass filters and are controlled by the PLL lock voltage. These diodes tune the center frequency to obtain good image response rejection.

4-1-4 VHF RF ATTENUATOR CIRCUIT

The current flow of the RF attenuator circuit (D33) Is controlled by the [SQL] control via the D/A control IC (IC19). When the [SQL] control rotated past the center, the current of D33 is increased. In this case, D33 acts as an attenuator.

4-1-5 1ST MIXER AND 1ST IF CIRCUITS

The mixer circuit converts the received signals to a fixed frequency of the 1st IF signal with a 1st LO (VCO output) frequency. By changing the PLL frequency, only the desired frequency will be passed through a pair of crystal filters at the next stage of the mixer.

The received signals from the VHF RF circuit are mixed with the 1st LO signal (VCO output signal) at the 1st mixer (Q52) to produce a 45.05 MHz 1st IF signal.

The 1st IF signal is applied to a pair of crystal filter (FI2) to suppress out-of-band signals. The filtered 1st IF signal is amplified at the 1st IF amplifier (Q60) and is then applied to the 2nd mixer circuit (IC20).

4-1-6 VHF RECEIVING VIA UHF DISPLAY

The transceiver has additional VHF RF and mixer circuits for a V/V para-watch function.

Some of the RF signals from the RF pre-amplifier (Q50) are applied to the V/V RF amplifier (Q75) via the attenuator circuit (D65) and bandpass filter (D66). The amplified signals are mixed with a 1st LO signal at the mixer circuit (Q76) to produce an 57.65 MHz IF signal. The signal is then applied to the UHF IF circuit (IC23 described in section 4-1-11).

The VHF VCO circuit (Q113, Q114) in the UHF PLL circuit generates the 1st LO signal for the V/V para-watch function.

4-1-7 2ND IF AND DEMODULATOR CIRCUITS

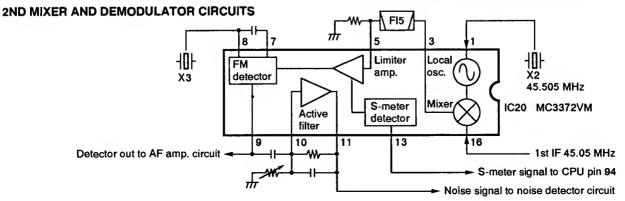
The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal. A double superheterodyne system (which converts received signals twice) improves the image rejection ratio and obtains stable receiver gain.

The FM IF IC (IC20) contains the 2nd local oscillator, 2nd mixer, limiter amplifier, noise amplifier, S-meter detector and quadrature detector circuits, etc.

The 1st IF signal (45.05 MHz) from the 1st IF amplifier (Q60) is applied to the 2nd mixer section of IC20 (pin 16), and is mixed with the 2nd LO signal (45.505 MHz) for conversion to a 455 kHz 2nd IF signal at the 2nd mixer section.

The 2nd IF signal (455 kHz) from the 2nd mixer section (IC20 pin 3) passes through the ceramic filter (FI5) where unwanted signals are suppressed. It is then amplified at the limiter amplifier section (IC20 pin 5) and applied to the quadrature detector section (IC20 pin 8 and discriminator X5) to demodulate the 2nd IF signal into AF signals.

AF signals output from IC20 (pin 9) are applied to the AF amplifier circuit via the AF selector (IC22).



4-1-8 AF AMPLIFIER CIRCUIT

The AF amplifier circuit amplifies the detected signals to drive a speaker. For the separate speaker function, a stereo power amplifier is used.

AF signals are passed through the AF switch (Q158), then the AF selector (IC22 pins 10, 11). AF signals from IC22 (pin 11) are applied to the active filter (Q163, Q164) which functions as a high-pass filter to suppress subaudible tone signals for tone squelch operation.

The filtered signals pass through the volume control IC (IC18) and are then applied to the AF power amplifier (IC15 pin 2). The output signals are applied to an external speaker jack (J2) via the "SPA" line. When no plug is connected to the jack, the signals are fed back to the UHF audio input (IC19 pin 5) and combined with the UHF audio. The mixed audio is applied to the other external speaker jack (J1) and then to the internal speaker.

4-1-9 VHF NOISE SQUELCH CIRCUIT

A noise squelch circuit cuts out AF signals when no RF signal is received. By detecting noise components in the AF signal, the squelch circuit switches the AF mute switches.

Some of the noise components in the AF signals from IC20 (pin 9) are passed through the active filter section (IC20 pins 10, 11), and then applied to the noise detector circuit (Q197, D121). The variable resistor (R398) adjusts the input level of the active filter, and the level is used for squelch threshold reference. The detected noise signals are applied to the CPU (IC29 pin 95) via the "VSQL S" ilne.

The [VHF SQL] (CONTROL unit R38) controls the input level of the sub-CPU (CONTROL unit IC2 pin 6) in DC voltage. The sub-CPU reads the angle of the [VHF SQL] rotation, then send the squelch data to the CPU incorporated in the RDATA. The squelch level is also controlled from the HM-98; the CPU receives squelch data from the HM-98 via the MDATA line.

The applied signals from the noise detector circuit and the CONTROL unit or from the HM-98 are differentiated by the CPU, and then the CPU controls AF mute switches (IC16, Q191) via the "VA MUTE" line.

4-1-10 UHF RF CIRCUIT

The signals from the UHF antenna switching circuit (D75-D77, D90) are applied to the RF pre-amplifier (Q85) and are then applied to the RF amplifier (Q86) via the RF attenuator circuit (D78). The amplified signals are passed through the bandpass filter (FI4), then applied to the 1st mixer circuit.

4-1-11 UHF 1ST MIXER AND 1ST IF CIRCUITS

The amplified signals from the RF amplifier (Q86) are mixed with a 1st LO signal at the mixer circuit (Q87) to produce a 57.65 MHz 1st IF signal. The 1st LO signal is the PLL output which comes from the U-UHF VCO circuit (Q123, D107, D145). The 1st IF signal is passed through a pair of crystal filters (FI3) to suppress out-of-band signals and then amplified at the IF amplifier (Q78).

4-1-12 UHF RECEIVING VIA VHF DISPLAY

The transceiver has additional UHF RF and mixer circuits for a U/U para-watch function.

Some of the RF signals from the RF pre-amplifier (Q85) are applied to the U/U RF amplifier (Q57) via the attenuator circuit (D45). The amplified signals are mixed with a 1st LO signal at the mixer circuit (Q58) to produce an 45.05 MHz IF signal via the bandpass filter (FI1). The signal is then applied to the UHF IF circuit (IC20 described in section 4-1-5).

The UHF VCO circuit (Q33) in the VHF PLL circuit generates the 1st LO signal for the U/U para-watch function.

4-1-13 UHF 2ND IF AND DETECTOR CIRCUITS

The IC23 incorporates the 2nd mixer, 2nd local oscillator, limiter amplifier, noise amplifier, quadrature detector and S-meter detector circuits. The 2nd local oscillator section and X4 generate 57.195 MHz for the 2nd LO signai.

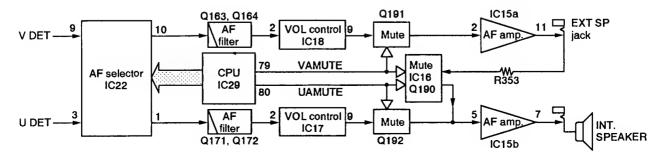
The amplified 1st IF signal Is fed to the FM IF IC (IC23 pin 16) where the signal is converted into a 2nd IF signal, then AF signals.

The AF signals output from IC23 (pln 9) pass through the AF switch (Q168), AF selector (IC22 pins 2, 1) and then active filters (Q171, Q172).

4-1-14 UHF NOISE SQUELCH CIRCUIT

A portion of the AF signals from IC23 (pin 9) are passed through the noise amplifier (IC23 pins 10, 11) and detected at Q167 and D123. The detected noise signals are applied to the CPU via the "USQL S" line, for reference. Then the CPU controls AF mute switches (IC16, Q190, Q192) after being differentiated by the squelch level setting.

AF SIGNAL LINE



4-2 TRANSMITTER CIRCUITS

4-2-1 MICROPHONE AMPLIFIER CIRCUIT

The microphone amplifier circuit amplifies audio signals from the microphone to a level needed for the modulation circuit. The microphone amplifier circuit is commonly used for the both VHF and UHF bands.

The AF signals from the microphone are applied to the MIC mute switch (Q178) and then amplified at the Q175. Then the amplified signals are applied to the IDC limiter amplifier (IC25b pin 5). The output signals from the IDC limiter amplifier (IC25b pin 7) are passed through the splatter filter (IC25a pins 3, 1) and then applied to each VCO circuit as a "MOD" signal via the deviation adjustment pot.

4-2-2 VHF MODULATION CIRCUIT

The modulation circuit modulates the oscillating signal (RF signal) using the microphone audio signals.

The "MOD" signal changes the reactance of a diode (D15) to modulate the oscillated signal at the VHF-VCO circuit (Q18, Q19). The VCO output is buffer-amplified at Q17, Q16 and Q15, and is then applied to the transmit/receive switching circuit (D41, D149) via the low-pass filter (L20, C75, C76).

4-2-3 VHF DRIVE AMPLIFIER CIRCUIT

The drive amplifier circult amplifies the VCO oscillated signal to the needed level at the power amplifier.

The signal from the transmit/receive switching circuit (D149) is passed through the " π " type attenuator circuit (R24–R26) and then amplified at the pre-drive amplifier (Q11). The amplified signal is amplified again at the drive amplifier (Q10) to obtain approx. 26 dBm.

4-2-4 VHF POWER AMPLIFIER CIRCUIT

IC4 is a power module which provides more then 50 W of output power with a 13.8 V DC power source.

An RF signal from the drive amplifier (Q10) is applled to IC4 (pin 1). The amplified signal from the power amplifier (IC4 pin 4) is then applied to the antenna connector via the transmit/receive switching circuit (D5) and low-pass filter.

4-2-5 VHF APC CIRCUIT

The APC circuit protects the power module (IC4) and drive amplifier (Q10) from a mismatched output load and stabilizes transmit output power.

The APC detector circuit (D7 and D6) detects forward signals and rectified signals respectively. The combined voltage is at a minimum level when the antenna is matched at $50\,\Omega$ and increases when it Is mismatched. The combined voltage is applied to the APC amplifier (IC7) and compared with a reference voltage which is supplied from the D/A control IC (IC19 pin 14).

The output voltage from IC7 (pin 4) is applied to the APC control circuit (Q55, Q56) to control the blas voltage of the PA module (IC9) and drive amplifier (Q10).

4-2-6 UHF MODULATION CIRCUIT

The audio signals from the microphone amplifier circuit (described in Section 4-2-1) are applied to the UHF-VCO circuit.

The audio signals change the reactance of a diode (D107) to modulate the oscillated signal at the UHF-VCO circuit (Q123, D145). The oscillated signal is amplified at the buffer amplifiers (Q120–Q122) and is then applied the LO switch circuit (D105, D148).

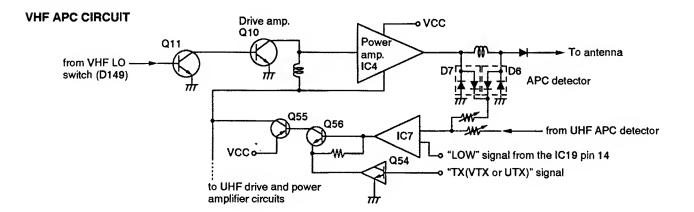
4-2-7 UHF POWER AMPLIFIER CIRCUIT

IC11 Is a power module which provides a stable 35 W (at 13.8 V DC) of output power.

The pre-drive (Q106, Q107), drive amplifier (Q105) and power amplifier (IC11) amplify the VCO oscillating signal to an output level. The output signal passes through the APC detector circuit (D91, D92) and bandpass filter, and is applied to the antenna connector.

4-2-8 UHF APC CIRCUIT

The APC detector circuit (D92 and D91) detects the forward and rectified signals, respectively. IC7 compares the voltages detected by the APC detector with the reference voltages. When the detected voltage exceeds a reference voltage, IC7 reduces the bias current of IC11 (pin 4) using Q56 and Q55 to decrease the RF output power.



4-3 PLL CIRCUITS

4-3-1 GENERAL

A PLL circuit provides stable oscillation of the transmit frequency and the receive local frequency. The PLL circuit compares the phase of the divided VCO frequency to the reference frequency. The PLL output frequency is controlled by a crystal oscillator and the divided ratio of the programmable divider.

4-3-2 VHF PLL CIRCUITS V-VHF LOOP

The generated signal at the V-VHF VCO (Q18, Q19) is amplified at the buffer-amplifiers (Q17, Q40) and then applied to the PLL IC (IC6 pin 19). The applied signal Is divided by serial data from the CPU and phase-detected with the divided reference frequency. The phase difference is output as pulses.

The output signal from IC6 (pin 13) is converted to DC voltages (lock voltage) by the active loop filter (Q41-Q43) and then fed back to the V-VHF VCO circuit to stabilize the VCO frequency.

The lock voltage is also used for the receiver circuit for tracking the bandpass filter center frequency. The lock voltage from Q42 is amplified at the buffer-amplifier (Q35) and then applied to the VHF RF circuit.

V-UHF LOOP

This loop is used for UHF receiver in VHF display while the U/U para-watch function is activated.

The generated signal at the V-UHF VCO (Q33) Is amplified at the buffer-amplifiers (Q32, Q40) and then applied to the PLL IC (IC6 pin 19). The applied signals are divided by serial data from the CPU and phase-detected with the divided reference frequency. The phase difference is output as pulses.

The output signal from IC6 (pin 13) is converted to DC voltages (lock voltage) by the active loop filter (Q41-Q43) and then fed back to the V-UHF VCO circuit to stabilize the VCO frequency.

4-3-3 UHF PLL CIRCUITS U-UHF LOOP

The generated signal at the U-UHF VCO (Q123) is amplified at the buffer-amplifiers (Q122, Q130) and then applied to the PLL IC (IC12 pin 19). The applied signals are divided by serial data from the CPU and phase-detected with the divided reference frequency. The phase difference is output as pulses.

The output signal from IC12 (pin 13) is converted to DC voltages (lock voltage) by the active loop filter (Q131–Q133) and then fed back to the U-UHF VCO circuit to stabilize the VCO frequency.

U-VHF LOOP

This loop is used for VHF receiver in UHF display while the V/V para-watch function is activated.

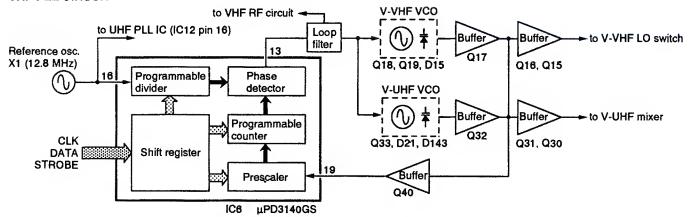
The generated signal at the U-VHF VCO (Q113, Q114) is amplified at the buffer-amplifiers (Q112, Q130) and then applied to the PLL IC (IC12 pin 19). The applied signals are divided by serial data from the CPU and phase-detected with the divided reference frequency. The phase difference is output as pulses.

The output signal from IC12 (pln 13) is converted to DC voltages (lock voltage) by the active loop filter (Q131–Q133) and then fed back to the U-VHF VCO circuit to stabilize the VCO frequency.

The lock voltage is also used for the receiver circuit for tracking the bandpass filter center frequency. The lock voltage from Q132 is amplified at buffer amplifiers (Q140) and then applied to the VHF circuit.

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VHF PLL CIRCUIT



4-4 POWER SUPPLY CIRCUITS 4-4-1 VOLTAGE LINES (MAIN UNIT)

Line	Description
HV	The voltage from the external power supply.
13.8 V	The same voltage as the HV line (external power supply) which is controlled by the power switch control circuit (MAIN unit Q3, Q4).
5 V	Common 5 V converted from the HV line by the 5 V regulator circuit (MAIN unit IC1). The circuit outputs the voltage regardless of whether [POWER] switch is ON/OFF.
8 V	Common 8 V converted from the 13.8 V line by the 8 V regulator circuit (MAIN unit IC3). The output voltage is supplied to the VT8 V, UT8 V and V-VR8 V regulator circuits, etc.
V-VR8 V	8 V for V-VHF receiver circuits converted from the 8 V line by the V-V BIAS SEL circuit (MAIN unit Q65, Q88, D56).
V-UR8 V	8 V for V-UHF receiver circuits converted from the 8 V line by the V-U BIAS SEL circuit (MAIN unit Q67, Q69, D57).
U-VR8 V	8 V for U-VHF receiver circuits converted from the 8 V line by the U-V BIAS SEL circuit (MAIN unit Q150, Q154, D115).
U-UR8 V	8 V for U-UHF receiver circuits converted from the 8 V line by the U-U BIAS SEL circuit (MAIN unit Q152, Q155, D82, D116).
VT8 V	8 V for VHF transmitter circuits converted from the 8 V line by the VT8 V regulator circuit (MAIN unit Q25, Q26).
UT8 V	8 V for UHF transmitter circuits converted from the 8 V line by the UT8 V regulator circuit (MAIN unit Q141, Q142).
PLL8 V	Common 8 V for PLL loop circuits converted from the 13.8 V line by the PLL regulator circuit (MAIN unit IC2, D152). The output voltage is supplied to PLL loop filter circuits.
PLL5 V	Common 5 V for PLL circuits converted from the 8 V line by the PLL5 V regulator circuit (MAIN unit Q202, Q203).

4-5 PORT ALLOCATIONS 4-5-1 CPU (MAIN UNIT)

Pin number	Port name	Description
9	RES	Input port for the reset circuit (MAIN unit IC30, Q184, D147).
11	EDATA	Outputs data signal to the EEPROM (MAIN unit IC31).
12	SCK	Outputs serial clock signal to a PLL and optional units.
13	UNITT	Input port to detect optional tone squelch unit (UT-104) installation. "High": UT-104 is installed.
14	SDATA	Outputs serial data signal to PLL and an optional tone squelch unit (UT-104).
15	OPD	Input port to detect optional DTMF encoder/decoder unit (UT-49) installation. "Low": UT-49 is installed.
16	RXD	Input port for serial signal from the sub-CPU (CONTROL unit IC2).
17	TXD	Output port for serial signal to the sub-CPU (CONTROL unit IC2).
18	РСНК	Input port for [POWER] switch ON signal while a transceiver is turned OFF.
21	EXTMIC	Input port to detect optional wireless microphone (HM-90) connection. "Low": HM-90 is connected.
23	MICIN	Input port for microphone serial data.
25	ETONE	Outputs 1750 Hz Europe tone signal.
26	ECK	Outputs clock signal for the EEPROM IC (MAIN unit IC31).
33	STBV	Outputs strobe signal for the D/A controller (MAIN unit IC19).
34	ADATA	Outputs data signal for the D/A controller (MAIN unit IC19).
35	ACK	Outputs clock signal for the D/A controller (MAIN unit IC19).
36–39	110–113	Input ports for initial matrix.
40–42	ISO-IS2	Outputs strobe signal for initial matrix.
44	STBTA	Outputs strobe signal for tone squelch unit (VHF band).
45	TSQLA	Input port for tone squelch detector. "Low": A matched tone signal is received.
46	STBTB	Outputs strobe signal for tone squelch unit (UHF band).

CPU (MAIN UNIT)

Pin number	Port name	Description
46	TSQLB	Input port for tone squelch detector. "Low": A matched tone signal is received.
48	VSTBPL	Outputs strobe signal for VHF PLL circuit.
49	VUNLK	Input port for VHF PLL unlock signal.
50	USTBPL	Outputs strobe signal for UHF PLL circuit.
51	·UUNLK	Input port for UHF PLL unlock signal.
52	vvcov	Outputs VHF VCO switch control signal.
53	vvcos	Outputs shift signal for VHF VCO circuit.
54	UVCOV	Outputs UHF VCO switch control signal.
55	uvcos	Outputs shift signal for UHF VCO circuit.
56	VTX	Outputs transmit signal for VHF band. "High": While transmitting on VHF band.
57	UTX	Outputs transmit signal for UHF band. "High": While transmitting on UHF band.
58	FANC	Outputs cooling fan control signal. "High": While cooling fan is activated.
75	PCTRL	Output port for the power switch control circuit (MAIN unit Q3, Q4). "High": Power is turned ON.
76	VDMUTE	Outputs mute control signal for VHF demodulated signals. "Low": VHF demodulated signals are muted.
77	UDMUTE	Outputs mute control signal for UHF demodulated signals. "Low": UHF demodulated signals are muted.
78	VAMUTE	Outputs mute control signal for VHF AF signals. "High": VHF AF signals are muted.
79	UAMUTE	Outputs mute control signal for UHF AF signals. "High": UHF AF signals are muted.
83	MMUTE	Outputs microphone mutę signal. "High": Microphone audio is muted.

CPU (MAIN UNIT)

Pin number	Port name	Description
84	StD	Input port for differentiated signal from an optional UT-49. "High": When a correct DTMF signal is received.
85–88	Q1-Q4	Input ports for DTMF decode signal (BIT0-BIT3) from an optional UT-49.
90	CTCSS	Outputs CTCSS tone signals.
91	DTMFE	Outputs DTMF signals while transmitting, beep audio while receiving.
94	VSM	Input port for VHF S-meter signal.
95	VSQLS	Input port for VHF noise signal.
96	USM	Input port for UHF S-meter signal.
97	USQLS	Input port for UHF noise signal.
98	MU/D	Input port for up/down signal from a microphone.
99	PTT	Input port for PTT switch.

4-5-2 SUB-CPU (CONTROL UNIT)

Pin number	Port name	Description		
10	DIMMER	Outputs dimmer control signal.		
17 LINH		Outputs LCD ON/OFF control signal. "High": LCD ON		
19 RDATA		Output port for serial signal to the CPU (MAIN unit IC29).		
20 TDATA		Input port for serial signal from the CPU (MAIN unit IC29).		
25	RESET	Input port for reset signal.		
26	LDI	Outputs serial data for the LCD (CONTROL unit DS4).		
27	LCL	Outputs serial clock for the LCD (CONTROL unit DS4).		
78–80	VL1-VL3	Input ports for LCD bias voltage.		

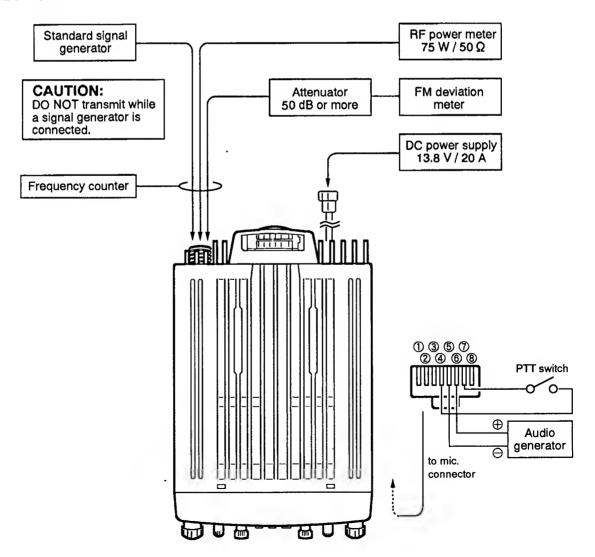
SECTION 5 ADJUSTMENT PROCEDURES

5-1 PREPARATION BEFORE SERVICING

■ REQUIRED TEST EQUIPMENT

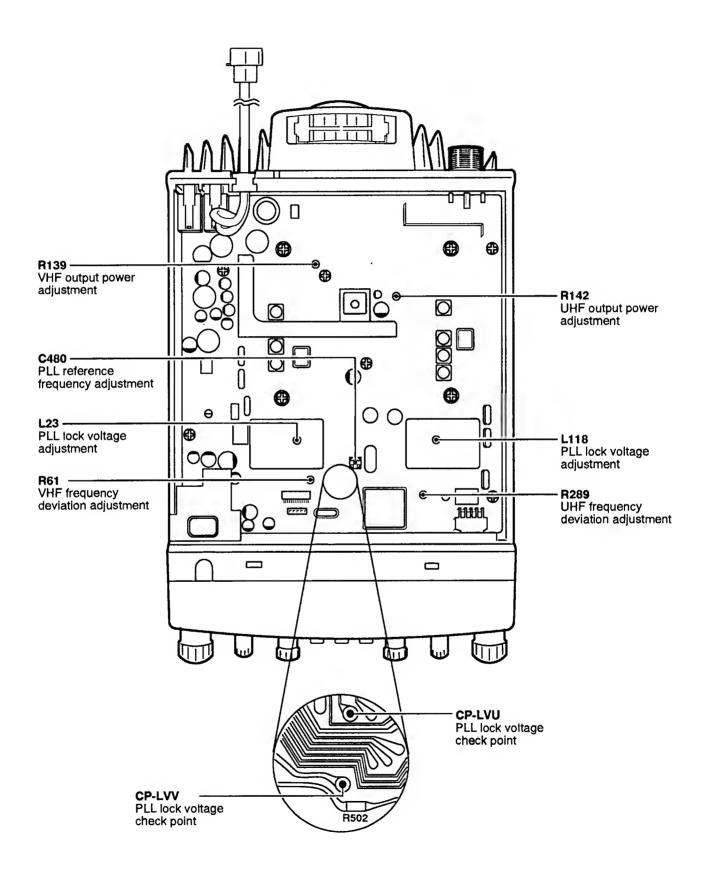
EQUIPMENT	GRADE AND RANGE		GRADE AND RANGE EQUIPMENT		EQUIPMENT	GRADE AND RANGE			
DC power supply	Output voltage Current capacity	: 13.8 V DC : 20 A or more	Standard signal generator (SSG)	Frequency range Output level	: 100–470 MHz : - 129 to - 17 dBm (0.079 µV to 132 mV)				
RF power meter (terminated type)	Measuring range Frequency range	: 1–80 W : 100–500 MHz	DC voltmeter	Imput impedance	: 50 kΩ/V DC or better				
	Input impedance SWR	: 50 Ω : 1.2 : 1 or better	Audio generator (AG)	Frequency range Measuring range	: 300–3000 Hz : 1–500 mV				
Frequency counter	Frequency range Frequency accuracy Sensitivity	: 100–470 MHz : ±1 ppm or better : 100 mV or better	Attenuator	Attenuation Capacity	: 50 dB or more : 75 W or more				
Oscilloscope	Frequency range Output range	: DC-20 MHz : 0.01-20 V	FM deviation meter	Frequency range Measuring range	: 100–470 MHz : 0 to ±10 kHz				

CONNECTIONS



5-2 PLL AND TRANSMITTER ADJUSTMENTS

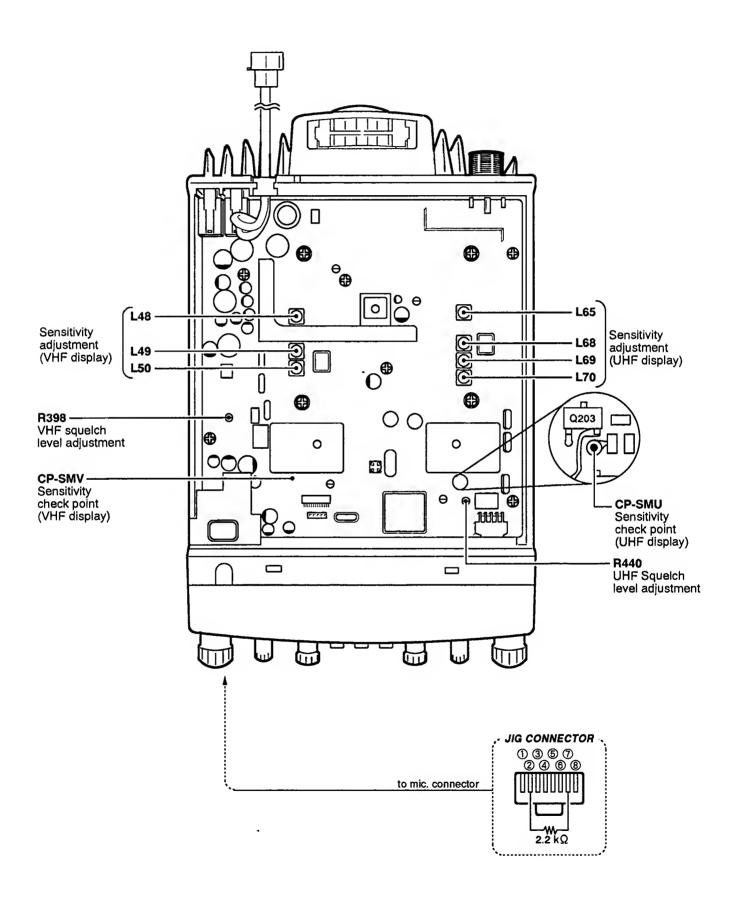
ADJUSTMEN	JT.	ADJUSTMENT CONDITIONS		MEASUREMENT	VALUE	ADJUSTMENT		
		ADJUSTIMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST	
PLL LOCK VOLTAGE	1	VHF display: 145.000 MHz Receiving	MAIN	Connect a digital multi-meter or an oscilloscope to the CP-LVV.	2.3 V	MAIN	L23	
	2	UHF display: 145.000 MHz Receiving		Connect a digital multi-meter or an oscilloscope to the CP-LVU.	1.5 V		L118	
PLL REFERENCE FREQUECY	1	UHF display: 440.000 MHz Simplex Transmitting	Rear panel	Loosely couple a frequency counter to the antenna connector.	440.000 MHz	MAIN	C480	
VHF OUTPUT POWER	1	VHF display: 146.000 MHz (USA, SEA versions) 145.000 MHz (All other versions) [HI/LOW] switch: HI Simplex Transmitting	Rear panel	Connect an RF power meter to the antenna connector.	50 W	MAIN	R139	
	2	• [HI/LOW] switch: Mid. (Low★)			5-20 W	1	Verify	
	3	• [HI/LOW] switch: Low			2-10 W	1		
UHF OUTPUT POWER	1	UHF display: 445.000 MHz (USA version only) 435.000 MHz (All other versions) [HI/LOW] switch: HI Simplex Transmitting	Rear panel	Connect an RF power meter to the antenna connector.	35 W	MAIN	R142	
	2	[HI/LOW] switch: Mid. (Low★)			520 W	1	Verify	
	3	[HI/LOW] switch: Low			2-10 W			
FREQUENCY DEVIATION	1	VHF display: 146.000 MHz (USA, SEA versions) 145.000 MHz (All other versions) Connect an audio generator to the microphone connector and set as; 20 mV/1.0 kHz Set an FM deviation meter as; HPF : 50 Hz LPF : 20 kHz De-emphasls : OFF Detector : (P - P)/2 [HI/LOW] switch: HI [CTCSS tone: OFF Simplex Transmitting	Rear panel	Connect an FM deviation meter to the antenna connector through an attenuator.	±4.8 kHz	MAIN	R61	
	2	UHF display: 445.000 MHz (USA version only) 435.000 MHz (All other versions)					R289	



5-3 RECEIVER ADJUSTMENT

		AD HIGHENT CONDITIONS	N	MEASUREMENT	VALUE	ADJUSTMENT		
ADJUSTMEN	4 I	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST	
VHF SENSITIVITY	1	VHF display: 145.000 MHz Connect an SSG to the antenna connector and set as; Level: 1 mV* (-47 dBm) Mod.: 1.0 kHz (±3.5 kHz Dev.) Receiving	MAIN	Connect a DC volt meter to the CP-SMV.	Maximum DC voltage	MAIN	Adjust in sequence L48, L49 L50	
	2	UHF display: 145.000 MHz Receiving		Connect a DC volt multimeter to the CP-SMU.		MAIN	Adjust in sequence L65, L68 L69, L70	
SQUELCH LEVEL	1	 VHF display: 146.000 MHz (USA, SEA versions) 145.000 MHz (All other versions) Squelch level : 7 (Use HM-98) R398 : Max. clockwise Connect an SSG to the antenna connector and set as; Level : 0.079 μV*(-129 dBm) Mod. : 1.0 kHz (±3.5 kHz Dev.) Receiving 	Spea- ker		At the point where the AF signal just appears.	MAIN	R398	
	2	UHF display: 445.000 MHz (USA version only) 435.000 MHz (ALL other versions) Squelch level: 7 (Use HM-98) R440: Max. clockwise Receiving			*		R440	
S-METER	1	 Connect a JIG to the microphone connector then turn ON the power. Both VHF/UHF displays: 145.000 MHz Connect an SSG to the antenna connector and set as; Level: 1.0 μV* (-107 dBm) Mod.: 1.0 kHz (±3.5 kHz Dev.) Receiving 	Front panel		Push and hold the either band, and th hold the [S. MW] ke band. • Verify that S-m (4 dots) each t	en pus ey of th	h and e other	
	2	VHF display: 445.000 MHz (USA version only) 435.000 MHz (All other versions) Receiving	Front panel		Push and hold the VHF band. • Verify that S-m (4 dots) each t	neter sh		
	3	UHF display: 445.000 MHz (USA version only) 435.000 MHz (All other versions) Set an SSG level as; 1.2 μV* (-105.5 dBm) Receiving	Front panel		Push and hold the UHF band. • Verify that S-m (4 dots) each t	neter sh		

^{*}This output level of a standard signal generator (SSG) is indicated as the SSG's open circuit.



SECTION 6

PARTS LIST

6-1 IC-2710H

[CONTROL UNIT]

REF.	ORDER			
NO.	NO.		DESCRIPTION	
IC1	1130007650	S.IC	LC75623W	
IC2	1140005520	S.IC	M36222M2-110HP	
IC3	1110003500	S.IC	S-80742SL-A8-T1	
IC4 IC5	1130005720 1180000420	S.IC S.IC	TC7W04F (TE12L) TA76L05F (TE12R)	
103	1100000420	3.10	TATOLOST (TETZN)	
Q1	1530002080	S.TRANSISTOR	2SC4061 T107 R	
Q2	1520000270	S.TRANSISTOR	2SB1162 TL Q	
Q3	1530002060 1510000620	S.TRANSISTOR S.TRANSISTOR	2\$C4061 T107 R 2\$A1576 T107 \$	
Q4 Q5	1530002060	S.TRANSISTOR	2SC4061 T107 R	
] ""	1000002000	ounitoio (o	2004001110111	
D2	1750000390	S.DIODE	1\$\$353 TE-17	
D3	1750000390	S.DIODE	1SS353 TE-17	
X1	8060000610	S.CERAMIC	EFOS4914E3	
R1	7030000320	S.RESISTOR	MCR10EZHJ 330 Ω (331)	
R2	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R3	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kQ)	
R4 R6	7030003560 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	
R7	7030003520	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R8	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R9	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R10	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R11	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)	
R12 R13	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R14	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R15	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R16	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R17	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R18 R19	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R20	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R21	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R22	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R23	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)	
R24 R25	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R26	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R27	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R26	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R30	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R31 R32	7030003720 7030003720	S.RESISTOR S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ) ERJ3GEYJ 224 V (220 kΩ)	
R33	7030003720	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R34	7210002640	VARIABLE	RH96N74A-14F-500KB-1729	
R35	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R36	7210002840	VARIABLE S.RESISTOR	RH96N74A-14F-500KB-1729	
R37 R36	7030003440 7210002640	VARIABLE	ERJ3GEYJ 102 V (1 kΩ) RH96N74A-14F-500KB-1729	
R39	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R40	7210002640	VARIABLE	RH96N74A-14F-500KB-1729	
R41	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R42	7030003 66 0 7030003520	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	
R43 R44	7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R45	7030003400	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R47	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R48	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R49	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R50	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 ♥ (47 kΩ)	
R51 R52	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R53	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R54	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R55	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R56	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	
L				

[CONTROL UNIT]

[CONTROL UNIT]						
REF. NO.	ORDER NO.	DE	SCRIPTION			
R57	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
R58	7030000060	S.RESISTOR	MCR10EZHJ 2.2 Q (2R2)			
R59	7030000060	S.RESISTOR	MCR10EZHJ 2.2 Q (2R2)			
R80	7030000080	S.RESISTOR	MCR10EZHJ 2.2 Ω (2R2)			
R81	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R82	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R63	7030000380	S.RESISTOR	MCR10EZHJ 860 Q (861)			
R54	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
C1 C2	4030010070 4030006860	S.CERAMIC S.CERAMIC	C1806 X7S 1C 104K-T-A C1806 JB 1H 102K-T-A			
C3	4030008680	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A			
C4	4030006860	S.CERAMIC	C1606 JB 1H 102K-T-A			
C7	4030009000	S.CERAMIC	C2012 JB 1C 224K-T-A			
C8	4030006860	S.CERAMIC	C1806 JB 1H 102K-T-A			
C9	4510004830	9	ECEVICA100SR			
C10	4510004630		ECEVICA100SR			
C11	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A			
C12	4030008880	S.CERAMIC S.CERAMIC	C1606 3B 1H 102K-1-A			
C12	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C14	4030007090	S.CERAMIC	C1606 JB 1H 472K-T-A			
C15	4030008680	S.CERAMIC	C1808 JB 1H 472K-T-A			
C18	4030006860	S.CERAMIC	C1606 JB 1H 472K-T-A			
C17	4030008880	S.CERAMIC	C1606 JB 1H 472K-T-A			
C18	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C19	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C20	4030007090	S.CERAMIC	C1806 CH 1H 470J-T-A			
C21	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C22	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A			
C23	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C24	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A			
C25	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C28	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C27	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C26	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A			
C29	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A			
C30	4030007090	S.CERAMIC	C1806 CH 1H 470J-T-A			
C31	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C32	4030007090	S.CERAMIC	C1806 CH 1H 470J-T-A			
C33	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C34	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A			
C35	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C36	4030007090	S.CERAMIC	C1606 CH 1H 470J-T-A			
C37	4510004630	S.ELECTROLITIC	ECEV1CA100SR			
DS1	5060000330	LAMP	HRS-7219A-RE			
DS2	5060000330	LAMP	HRS-7219A-RE			
DS3	5060000330	LAMP	HRS-7219A-RE			
DS4	5030001320	LCD	HLC8763-012300			
S1	2250000280	ENCODER	RH90N74AE20-15F-1647			
S 2	2260001690	S.SWITCH	SKQDPA			
S3	2260001890	S.SWITCH	SKQDPA			
S4	2260001890	S.SWITCH	SKQDPA			
S 5	2260001890	S.SWITCH	SKQDPA			
S6	2260001890	S.SWITCH	SKQDPA			
S 7	2260001690	S.SWITCH	SKQDPA			
S6	2260001890	S.SWITCH	SKQDPA			
S9	2260001890	S.SWITCH	SKQDPA			
S10	2280001690	S.SWITCH	SKQDPA			
S11	2250000260	ENCODER	RH90N74AE20-15F-1647			
J1	6510019310	CONNECTOR	1729 FRONT CONNECTOR			
W1	7030003880	S.JUMPER	ERJ3GE JPW V			
W2	7030003660	S.JUMPER	ERJ3GE JPW V			
W3	7030003660	S.JUMPER	ERJ3GE JPW V			
EP1	0910046462	PCB	B 4623B			
EP2	6930038350	LCD CONTACT	SRCN-1729-ZNN-510			
		35				
		l				

REF. NO.	ORDER NO.		DESCRIPTION		REF.	ORDER NO.		DESCRIPTION
IC1	1180001070	s.ic	TA7905E(TE191)	1			C FET	25K100 2 77
IC2	1110002510	S.IC	TA7805F(TE18L) AN8009M-(E1)		O85 O88	1580000490 1580000480	S.FET S.FET	3SK188-2-T7
IC3	1180001250	S.IC	TA7808F(TE18L)		087	1580000480	S.FET	3\$K184-\$ (TX) 3\$K184-\$ (TX)
IC4	1150000780	IC	SC1091		088	1590000430	S.TRANSISTOR	
IC5	1130004200	S.IC	TC4S88F (TE85R)		095	1530002900	S.TRANSISTOR	
IC8	1130007810	S.IC	μPD3140GS-E1 (DS8)		098	1580000480	S.FET	3SK184-S (TX)
IC7	1110002750	S.IC	TA75S01F (TE85R)	1	097	1590000430		DTC144EU T107
IC8	1110001971	s.ic	μPC1878G-T1	1	098	1530002900	S.TRANSISTOR	
IC10	1110001971	s.ic	μPC1878G-T1		0105	1530002340	S.TRANSISTOR	
IC11	1150001820	IC	SC-1318	1	0108	1530002880	S.TRANSISTOR	2SC3357-T2
IC12	1130007810	S.IC	μPD3140GS-E1 (DS8)		Q107	1530002920	S.TRANSISTOR	2SC4228-T2 R25
IC13	1130004200	S.IC	TC4S88F (TE85R)		0110	1530002920	S.TRANSISTOR	2SC4228-T2 R25
IC15	1110002540	IC	LA4445		0111	1530002920	S.TRANSISTOR	2SC4228-T2 R25
IC18	1130003780	S.IC	TC4S81F (TE85R)		0112	1530002920	S.TRANSISTOR	2SC4228-T2 R25
IC17	1110003300	S.IC	M5282FP 70CD		0113	1530002920	1	2SC4228-T2 R25
IC18	1110003300	S.IC	M5282FP 70CD	1	0114	1530002920	ž –	2SC4228-T2 R25
IC19	1110003890	S.IC	M82354GP 75EC		0120	1530002900	S.TRANSISTOR	
IC20	1110003571	S.IC	MC3372SVMEL		0121	1530002900	S.TRANSISTOR	
IC22	1130008090	S.IC	BU4088BCFV-E1	1	0122	1530002900	S.TRANSISTOR	
IC23	1110003571	S.IC	MC3372SVMEL	1	0123	1580000490	S.FET	2SK508 K52 T2B
IC25	1110000980	S.IC	NJM4558M(T1)	1	0130	1530002900		2SC4228-T2 R45
IC27	1110002750	S.IC S.IC	TA75S01F (TE85R)		0131	1530003000	S.TRANSISTOR	, ,
IC28	1130008550		TC7S08FU (TE85R)		0132	1530003000	S.TRANSISTOR	V
IC29	1140005980	S.IC S.IC	HD8433875NA29H		0133	1580000530	S.FET	2SK880-GR (TE85R)
IC30 IC31	1110001500 1130007290	S.IC	S-8054ALR-LN-T1 24LC18BT-I/SN		0140 0141	1580000530 1510000580	S.FET	2SK880-GR (TE85R)
IC31	1130007290	S.IC	TC7W04FU(TE12L)	1	0141	1530002080	S.TRANSISTOR	2SA1362-GR (TE85R) 2SC4081 T107 R
.552	1100007110	5.10	(CATION OLICE)		0142	1590001040	S.TRANSISTOR	
					0144	1530001040	S.TRANSISTOR	
01	1520000200	S.TRANSISTOR	2SB798-T2 DK		Q145	1540000420	S.TRANSISTOR	
02	1530002080		2SC4081 T107 R		0148	1530002080		2SC4081 T107 R
03	1520000270	S.TRANSISTOR			0147	1590000430	S.TRANSISTOR	
04	1590002110	S.TRANSISTOR	DTC143XU T107		0150	1590000980	S.TRANSISTOR	
010	1530002340	S.TRANSISTOR			Q151	1590000980	S.TRANSISTOR	
011	1530002880	S.TRANSISTOR			0152	1590000980	S.TRANSISTOR	
015	1530002920	S.TRANSISTOR	2SC4228-T2 R25		0153	1590000980	S.TRANSISTOR	DTB123EK T147
018	1530002920	S.TRANSISTOR	2SC4228-T2 R25		0154	1590002270	S.TRANSISTOR	UMG9N TL
017	1530002920	S.TRANSISTOR	2SC4228-T2 R25		Q155	1590002270	S.TRANSISTOR	UMG9N TL
018	1530002920	S.TRANSISTOR	2SC4228-T2 R25		Q158	1530002840	S.TRANSISTOR	2SC4118-Y (TE85R)
019	1530002920		2SC4228-T2 R25		0157	1530002840	S.TRANSISTOR	2SC4118-Y (TE85R)
020	1590000430		DTC144EU T107		0158	1590001450	S.FET	2SJ144-GR (TE85R)
025	1510000580		2SA1382-GR (TE85R)		O159	1590002410	S.TRANSISTOR	UMH2N TN
028	1530002080		2SC4081 T107 R		0180	1580000530	S.FET	2SK880-GR (TE85R)
O30	1530002900		2SC4228-T2 R45		Q181	1530002080		2SC4081 T107 R
031	1530002900		2SC4228-T2 R45		Q182	1590000430		DTC144EU T107
032	1530002900		2SC4228-T2 R45		0183	1530002080		2SC4081 T107 R
033	1580000490	S.FET	2SK508 K52 T2B		0184	1530002080		2SC4081 T107 R
O35	1580000530 1530002900	S.FET	2SK880-GR (TE85R)		0185	1530002080		2SC4081 T107 R
O40 O41	1530002900	S.TRANSISTOR	2SC4228-T2 R45 2SC4117-BL (TE85R)		0188	1580000530	S.FET	2SK880-GR (TE85R)
041 042	1530003000		2SC4117-BL (TE85R) 2SC4117-BL (TE85R)		0187	1580000530	S.FET	2SK880-GR (TE85R)
O42	158000530	S.FET	2SK880-GR (TE85R)		0188	1590001450	S.FET	2SJ144-GR (TE85R)
043	1590001040		DTA113ZU T107		0189	1580000530 1530002080	S.FET	2SK880-GR (TE85R) 2SC4081 T107 R
Q45	1530001040		2SC4081 T107 R		0170 0171	1530002080	S.TRANSISTOR	
O46	1540000420	S.TRANSISTOR			0171	1530002080		2SC4081 T107 R 2SC4081 T107 R
040	1530002060		2SC4081 T107 R	1	0172	1590001450	S.FET	2SJ144-GR (TE85R)
050	1580002000	S.FET	3SK184-S (TX)		0174	1530001450		2SC4081 T107 R
051	1580000480	S.FET	3SK184-S (TX)		0177	1590001450	S.FET	2SJ144-GR (TE85R)
052	1580000480	S.FET	3SK184-S (TX)		0178	1590001450	S.FET	2SJ144-GR (TE85R)
O53	1590000430	S.TRANSISTOR	DTC144EU T107		0179	1590000430		DTC144EU T107
054	1590001320	S.TRANSISTOR			0180	1590002420	S.TRANSISTOR	
055	1510000980	S.TRANSISTOR	2SA1870 TLE		0181	1540000250	S.TRANSISTOR	
Q58	1530002080	S.TRANSISTOR			0182	1530002080		2SC4081 T107 R
057	1580000480	S.FET	3SK184-S (TX)		0184	1530002080		2SC4081 T107 R
058	1580000480	S.FET	3SK184-S (TX)		0185	1530002080		2SC4081 T107 R
059	1590000430	S.TRANSISTOR	DTC144EU T107		0188	1510000780		2SA1588-Y (TE85R)
Q80	1530002920	S.TRANSISTOR	2SC4228-T2 R25		0187	1590002410	S.TRANSISTOR	
065	1590000980	S.TRANSISTOR	DTB123EK T147		O190	1530003090		2SC4213-B (TE85R)
088	1590000980	S.TRANSISTOR	DTB123EK T147		0191	1530003090		2SC4213-B (TE85R)
087	1590000980	S.TRANSISTOR	DTB123EK T147		0192	1530003090		2SC4213-B (TE85R)
880	1590002270	S.TRANSISTOR	UMG9N TL		0193	1530002080		2SC4081 T107 R
Q69	1590000430	S.TRANSISTOR	DTC144EU T107		Q194	1530002060		2SC4081 T107 R
Q75	1580000480	S.FET	3SK184-S (TX)		Q195	1530002060		2SC4081 T107 R
Q76	1580000480	S.FET	3SK184-S (TX)		Q196	1560000530	S.FET	2SK880-GR (TE85R)
Q77	1590000430	S.TRANSISTOR	DTC144EU T107		Q197	1580000530	S.FET	2SK880-GR (TE85R)
Q78	1530002920	C TRANSISTOR	2SC4226-T2 R25		Q198	1530002570	S.TRANSISTOR	• •

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[MAIN UNIT]

REF.	ORDER NO.	ı	DESCRIPTION		REF. NO.	ORDER NO.	С	ESCRIPTION	
								DA445 T465	(EUD) (ITA)
Q199	1530002570	S.TRANSISTOR S.TRANSISTOR	2SC4405-3-TL 2SC4061 T107 R		D130	1750000170	S.DIODE		(EUR), (ITA) (USA)
Q200	1530002080		2SC4061 T107 R 2SC4061 T107 R		D132	1750000390	S.DIODE	1S\$353 TE-17	• •
Q201	1530002080 1590000430		DTC144EU T107		D132	1750000390	S.DIODE	1SS353 TE-17	
Q202 Q203	1590000430		DTB123EK T147		D134	1750000390	S.DIODE	1SS353 TE-17	
Q203	1380000800	3.111211313131	DIBIZOCK 1147		5104	1,0000000	0.5.052		[SEA]
		21025	Danata		D135	1750000390	S.DIODE	1SS353 TE-17	
D1 D2	1790000700 1790001000	DIODE S.ZENER	DSA3A1 MA8082-L(TX)		D138	1750000390	S.DIODE	1SS353 TE-17	[AUS], [SEA] [EUR], [USA]
D3	1730000520	ZENER	RD20E B2		2.00		3.2.2		[AUS], [SEA]
D5	1710000310	DIODE	MI407		D138	1710000800	DIODE	1\$S254	[EUR], [AUS]
D8	1790000960	S.DIODE	MA742(TX)		D139	1710000600	DIODE		(EUR), (ITA)
D7	1790000980	\$.DIODE	MA742(TX)						[AUS], [SEA]
D8	1750000370	S.DIODE	DA221 TL		D140	1790001000	S.ZENER	MA8082-L(TX)	
D9	1750000390	S.DIODE	1SS353 TE-17		D141	1750000390	S.DIODE	1SS353 TE-17	
D15	1720000370	S.VARICAP	HVU350TRF		D142 D143	1750000390 1720000620	S.DIODE S.VARICAP	1\$\$353 TE-17 1T363A-04-T8A	
D18	1790000820 1720000820	S.DIODE S.VARICAP	MA77(TW) 1T383A-04-T8A		D143	1730002270	S.ZENER	MA8024(TX)	
D21 D25	1750000390	S.DIODE	1SS353 TE-17		D145	1720000820	S.VARICAP	1T383A-04-T8A	
D23	1710000730	S.DIODE	MI809-T11		D148	1730002270	S.ZENER	MA8024(TX)	
D30	1710000730	S.DIODE	MI809-T11		D147	1730002280	S.ZENER	MA8091-M(TX)	
D32	1750000390	S.DIODE	1SS353 TE-17		D148	1790000820	S.DIODE	MA77(TW)	
D33	1720000240	S.DIODE	1SV172 (TE85R)		D149	1790000820	\$.DIODE	MA77(TW)	
D38	1790001290	S.VARICAP	MA304(TX)		D150	1750000390	S.DIODE	1\$\$353 TE-17	
D38	1790001290	S.VARICAP	MA304 (TX)		D151	1750000390	S.DIODE	1SS353 TE-17	
D40	1790001290	S.VARICAP	MA304(TX)		D152	1750000390	S.DIODE	1SS353 TE-17	
D41	1790000820	S.DIODE	MA77(TW)						
D45	1720000240	S.DIODE	1\$V172 (TE85Ř)		, ,,			From the state of	
D46	1790000450	S.DIODE	MA882(TX)		FI1	2040001000	S.SAW	EFCH435MWNF	'1
D47	1790001010	S.ZENER	MA8043-L(TX)		ria l	0040004000	CCAN	[except USA] EFCH445MWNF	١.
D48	1790000450	S.DIODE	MA882(TX)		FI1	2040001020	S.SAW	[USA]	1
D49	1790000660 1790001000	S.DIODE S.ZENER	MA133(TX) MA8082-L(TX)		Fl2	2010001930	MONOLITHIC	FL-241 (45.0500	100 MHz)
D54 D55	1160000080	S.DIODE	DAN202U T107		FI3	2010001930	MONOLITHIC	FL-242 (57.85 M	
D55 D58	1750000390	S.DIODE	1SS353 TE-17		FI4	2040001000	S.SAW	EFCH435MWNF	•
D57	1160000060	S.DIODE	DAN202U T107					[except USA]	
D60	1160000060	S.DIODE	DAN202U T107	i	FI4	2040001020	S.SAW	EFCH445MWNF	21
D85	1720000240	S.DIODE	1SV172 (TE85R)					[USA]	
D88	1720000370	S.VARICAP	HVU350TRF		FI5	2020001090	CERAMIC	KBF-455P-15A	
D87	1720000370	S.VARICAP	HVU350TRF		FI6	2020001090	CERAMIC	KBF-455P-15A	
D88	1720000370	S.VARICAP	HVU350TRF						
D89	1720000370	S.VARICAP	HVU350TRF						
D70	1790000880	S.DIODE	MA135(TX)		X1	8050009090	XTAL	CR-489 (12.800	•
D75	1710000730	S.DIODE	MI809-T11		X2 X3	6050009580	XTAL DISCRIMINATOR	CR-535 (45.505)	UUU MINZ)
D76 D77	1710000730 1750000390	S.DIODE S.DIODE	MI809-T11 1SS353 TE-17		X4	8050009590	XTAL	CR-538 (57.195	000 MHz)
D78	1720000390	S.DIODE	1SV172 (TE85R)		X5	8070000090	DISCRIMINATOR		000 1111 12,
D79	1790000240	S.DIODE	MA882(TX)		X8	8050009800	S.XTAL	SMD-49 (8.000 I	MHz)
D81	1790000450	S.DIODE	MA882(TX)		,				,
D82	1160000080	S.DIODE	DAN202U T107				,		
D85	1790001010	S.ZENER	MA8043-L(TX)		Li	8110002150	COIL	LA-385	
D90	1710000310	DIODE	MI407		L2	8110001550	COIL	LA-235	
D91	1790000980	S.DIODE	MA742(TX)		L3	8110001810	COIL	LA-244	
D92	1790000980	S.DIODE	MA742(TX)		L4	8170000180	COIL	LW-19	
D93	1750000370	S.DIODE	DA221 TL		L5	6110001550	COIL	LA-235	
D101	1720000370	S.VARICAP	HVU350TRF		L8	8110001550	COIL	LA-235	71
D105	1790000450	S.DIODE S.DIODE	MA882(TX) MA77(TW)		L10	8200002800 8200002420	S.COIL S.COIL	NL 252018T-047 NL 252016T-088	
D108	1790000820 1720000820	S.DIODE S.VARICAP	MA77(TW) 1T363A-04-T8A		L11 L12	6200003890	S.COIL	NL 252018T-027	
D107 D110	1750000820	S.DIODE	1\$\$353 TE-17		L12	8200003880	S.COIL	NL 252016T-028	
D114	1790001000	S.ZENER	MA8082-L(TX)	•	L14	8200003560	S.COIL	NL 252018T-018	
D115	1180000080	S.DIODE	DAN202U T107	1	L20	8200002800	S.COIL	NL 252018T-047	
D118	1180000080	S.DIODE	DAN202U T107	Ī	L21	8200002840	S.COIL	NL 252018T-R1	
D120	1790000980	S.DIODE	MA742(TX)	Ī	L22	6200002800	S.COIL	NL 252016T-047	
D121	1790000980	\$.DIODE	MA742(TX)	[L23	6130002420	S.COIL	LB-270	
D122	1790000980	S.DIODE	MA742(TX)	1	L24	8200001520	S.COIL	MLF2012D R82	
D123	1790000980	S.DIODE	MA742(TX)		L30	8200003580	S.COIL	NL 252018T-018	
	1730002280	S.ZENER	MA8091-M(TX)	Ī	L31	8200002580	S.COIL	NL 252018T-033	
D124	1750000390	S.DIODE	1SS353 TE-17	Ī	L32	8200002580	S.COIL	NL 252018T-033	
D125		S.DIODE	1SS353 TE-17 1SS353 TE-17	Ī	L33	8200004950	S.COIL	NL 252018T-1R	
D125 D128	1750000390			1	L34	6200002850	S.COIL	NL 252018T-R8	LJ
D125 D128 D127	1750000390	S.DIODE			3 1 3 5	1 Bauuuuaaeu	rs con	ION 14 27N IO4	
D125 D128 D127 D128	1750000390 1750000390	\$.DIODE	1SS353 TE-17 [except USA]		L35	8200002350 8200001520	S.COIL S.COII	LQN 1A 27NJ04 MLF2012D R82	
D125 D128 D127 D128 D129	1750000390 1750000390 1750000170	\$.DIODE S.DIODE	1SS353 TE-17 [except USA] DA115 T107 [EUR], [ITA]		L38	8200001520	S.COIL	MLF2012D R82	
D125 D128 D127 D128 D129 D130	1750000390 1750000390	\$.DIODE	1SS353 TE-17 [except USA]				1		
D125 D128 D127 D128 D129	1750000390 1750000390 1750000170 1180000080	S.DIODE S.DIODE S.DIODE	1SS353 TE-17 [except USA] DA115 T107 [EUR], [ITA] DAN202U T107 [SEA]		L38 L40	8200001520 8110001580	S.COIL COIL	MLF2012D R82 LA-238	

[MAIN UNIT]

REF.	ORDER NO.		DESCRIPTION	I	REF.	ORDER NO.		DESCRIPTION
L43	6200002430	s.coil	NL 252016T-062J		R1	7030001010	S.RESISTOR	MCR50JZHJ 10 Ω (100)
L43	6200002430	s.coil	NL 252016T-R15J		R2	7030001010	S.RESISTOR	MCR50JZHJ 10 Ω (100)
L47	6200000070	S.COIL	LQN 2A R15K		R3	7030001010	S.RESISTOR	MCR50JZHJ 10 Ω (100)
L46	6150004360	S.COIL	LS-491		R4	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
L49	6150004360	S.COIL	LS-491		R5	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L50	6150004360 6200002160	S.COIL S.COIL	LS-491 NL 252016T-R12J		R6 R7	7030003560 7030001210	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) MCR50JZHJ 470 Ω (471)
L51 L55	6200002160	S.COIL	NL 2520161-K123 NL 252016T-016J		R10	7030001210	S.RESISTOR	MCR50JZHJ 100 Ω (101)
L56	6200002560	S.COIL	NL 252016T-033J		R11	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
L59	6200003660	S.COIL	NL 252016T-022J		R12	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
L60	6200001960	S.COIL	NL 252016T-1R0J		R16	7030001050	S.RESISTOR	MCR50JZHJ 22 Ω (220)
L65	6150004490	S.COIL S.COIL	LS-502 NL 252016T-066J		R17 R16	7030003520 7030003430	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 621 V (620 Ω)
L66 L67	6200002420	S.COIL	LQN 2A R15K		R19	7030003430	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L66	6150004490	S.COIL	LS-502		R20	7030000160	S.RESISTOR	MCR10EZHJ 22 Ω (220)
L69	6150004490	S.COIL	LS-502		R21	7030000160	S.RESISTOR	MCR10EZHJ 22 Ω (220)
L70	6150004490	S.COIL	LS-502		R22	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
L71	6200000260	S.COIL	LQN 2A R10K NL 252016T-1R0J		R23	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
L72 L75	6200001960 6110001520	S.COIL COIL	LA-232		R24 R25	7030003340 7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 390 V (39 Ω)
L76	6110001520	COIL	LA-232		R26	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
L77	6200002560	S.COIL	NL 252016T-033J		R26	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L76	6200002600	S.COIL	NL 252016T-047J		R29	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
L79	6200003560	S.COIL	NL 252016T-016J		R35	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
L60 L64	6200002560 6200003690	S.COIL S.COIL	NL 252016T-033J NL 252016T-027J		R36 R37	7030003260 7030003650	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 563 V (56 kΩ)
L66	6200003590	S.COIL	NL 252016T-039J		R36	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
L90	6200002740	S.COIL	LL2012-F6N6K		R39	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
L91	6200002740	S.COIL	LL2012-F6N6K		R40	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
L92	6200002450	S.COIL	LL2012-F15NK		R41	7030003220	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)
L93 L94	6200003390 6200003390	S.COIL S.COIL	LL2012-F12NK LL2012-F12NK		R42 R43	7030003360 7030003220	S.RESISTOR S.RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 150 V (15 Ω)
L95	6200003350	S.COIL	LL2012-F15NK		R44	7030003260	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
L96	6200002440	S.COIL	LL2012-F10NK		R45	7030003650	S.RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
L97	6200002440	S.COIL	LL2012-F10NK		R46	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
L96	6200003390	S.COIL	LL2012-F12NK		R47 R46	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
L100 L101	6110001520 6110001520	COIL	LA-232 LA-232		R49	7030003360 7030003530	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 582 V (5.6 kΩ)
L102	6110001320	COIL	LA-362		R50	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
L103	6110002130	COIL	LA-363	t	R51	7030003530	S.RESISTOR	ERJ3GEYJ 582 V (5.6 kΩ)
L104	6170000160	COIL	LW-19		R52	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
L105	6110001520	COIL S.COIL	LA-232 NL 252016T-015J		R53 R54	7030003660 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 103 V (10 kΩ)
L107 L109	6200003670 6200003530	S.COIL	NL 2520161-0153 NL 252018T-012J		R55	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
L1 10	6200003680	S.COIL	NL 252016T-010J		R56	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
L111	6200002560	S.COIL	NL 252016T-033J		R57	7030003600	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
L1 15	6200002600	S.COIL	NL 252016T-047J	1	R56	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
L116 L117	6200002640 6200002800	S.COIL S.COIL	NL 252016T-R15J NL 252016T-047J		R59 R60	7030003680 7030003540	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 682 V (8.6 kΩ)
L116	6130002420	S.COIL	LB-270		R61	7310003600	S.TRIMMER	EVM-1XSX50 B54 (503)
L119	6200001520	S.COIL	MLF2012D R62K-T		R65	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
L125	8200003580	S.COIL	NL 252016T-018J		R68	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
L126	6200002560	S.COIL	NL 252016T-033J		R67	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
L127 L126	6200004080 6200001530	S.COIL S.COIL	MLR1806M 33NJ-T LER 015T 3R3K	1	R70 R71	7030003280 7030003650	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 583 V (56 kΩ)
L129	6200001570	S.COIL	LER 015T 1R0M	ı	R72	7030003260	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
L130	6200002350	S.COIL	LQN 1A 27NJ04		R73	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
L131	6200002650	S.COIL	NL 252016T-R62J		R74	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
L140	6200002090	S.COIL	ELJFB 661K-F		R75	7030003460	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
L141 L142	6200002090 6200002560	S.COIL S.COIL	ELJFB 661K-F NL 252016T-033J		R76 R77	7030003440 7030003260	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 470 V (47 Ω)
L143	6200004360	S.COIL	LL1806-F16NK	ı	R78	7030003200	S.RESISTOR	ERJ3GEYJ 583 V (58 kΩ)
L145	6200002850	S.COIL	NL 252016T-R62J		R79	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
L146	6200002650	S.COIL	NL 252016T-R82J		R60	7030003230	S.RESISTOR	ERJ3GEYJ 160 V (18 Ω)
L147	6200003690	S.COIL	NL 252016T-027J		R61	7030003260	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
L146 L149	6200005950 6200004920	S.COIL S.COIL	LQH 3N 2R2M04 (Q20) MLF1606A 2R2K-T		R85 R86	7030003870 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ) ERJ3GEYJ 271 V (270 Ω)
L150	6200004920	S.COIL	MLF1608A 2R2K-T		R90	7030003370	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
L151	6200004920	S.COIL	MLF1606A 2R2K-T		R91	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
L152	6200005950	S.COIL	LQH 3N 2R2M04 (Q20)		R92	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
L153	6200004920	S.COIL	MLF1608A 2R2K-T		R93	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
L154 L155	6200001520 6200004920	S.COIL S.COIL	MLF2012D R62K-T MLF1606A 2R2K-T		R94 R95	7030000360	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
L155	6200004920	S.COIL S.COIL	MLF 1000A 2R2K-1 NL 252016T-068J		R98	7030003320 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 471 V (470 Ω)
					R97	7030003360	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
1				ı	R96	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
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[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION			REF.
R99	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		R192
R100	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R193
R101 R105	7030003520 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)		R194 R195
R106	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		R198
R107	7030003860	S.RESISTOR	ERJ3GEYJ 683 V (66 kΩ)		R197
R108 R109	7030003320 7030004030	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 5R6 V (5.6 Ω)		R198 R199
R110	7030004030	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)		R200
R111	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)		R201
R112	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Q)		R202
R114 R115	7030003640 7030003670	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 823 V (62 kΩ)		R203 R204
R116	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		R205
R117	7030003260	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)		R206
R118 R120	7030003240 7030003880	S.RESISTOR S.RESISTOR	ERJ3GEYJ 220 V (22 Ω) ERJ3GEYJ 104 V (100 kΩ)	ŀ	R207 R208
R120	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R211
R124	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R212
R125	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R213
R126 R127	7030003360 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 102 V (1 kΩ)		R214 R215
R130	7030001190	S.RESISTOR	MCR50JZHJ 330 Ω (331)		R218
R131	7030003650	S.RESISTOR	ERJ3GEYJ 583 V (56 kΩ)		R217
R132	7030003610 7030003810	S.RESISTOR S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ) ERJ3GEYJ 273 V (27 kΩ)		R216 R219
R133 R134	7030003810	S.RESISTOR	ERJ3GEYJ 824 V (820 kΩ)		R220
R136	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R221
R137	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)		R225
R136 R139	7030003800 7310003580	S.RESISTOR S.TRIMMER	ERJ3GEYJ 223 V (22 kΩ) EVM-1XSX50 B15 (104)		R226 R227
R140	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R228
R142	7310003560	S.TRIMMER	EVM-1XSX50 B15 (104)		R229
R144 R145	7030003820 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEYJ 471 V (470 Ω)		R231 R232
R146	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R235
R147	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R238
R146 R149	7030003660 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)		R237 R236
R150	7030003320	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	1	R239
R151	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R240
R152	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R242
R153 R155	7030003300 7030000220	S.RESISTOR S.RESISTOR	ERJ3GEYJ 660 V (68 Ω) MCR10EZHJ 47 Ω (470)		R243 R244
R156	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)		R245
R159	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R248
R160 R161	7030003680 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)		R247 R248
R162	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R249
R163	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R251
R184 R165	7030003320 7030003310	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 820 V (82 Ω)		R252 R253
R166	7030003310	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		R255
R187	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)		R258
R166	7030003820 7030003880	S.RESISTOR S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEYJ 104 V (100 kΩ)		R257 R261
R169 R170	7030003880	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)		R262
R171	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)		R263
R172	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)		R284
R173 R174	7030003200 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 101 V (100 Ω)		R265 R266
R175	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	i	R267
R176	7030000240	S.RESISTOR	MCR10EZHJ 88 Ω (660)		R268
R177 R180	7030000250 7030003380	S.RESISTOR S.RESISTOR	MCR10EZHJ 62 Ω (820) ERJ3GEYJ 331 V (330 Ω)		R269 R270
R181	7030003380	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R271
R182	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R272
R183	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ) ERJ3GEYJ 101 V (100 Ω)		R273
R184 R165	7030003320 7030003240	S.RESISTOR S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)		R274 R275
R188	7030003280	S.RESISTOR	ERJ3GEYJ 470 V-(47 Ω)		R276
R187	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R277
R186 R169	7030003680 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)		R278 R279
	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	1	R280
R190	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,		

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REF. NO.	ORDER NO.		DESCRIPTION
B100	7020002200	e DECICTOR	ED120EV1404 V (100 O)
R192 R193	7030003320 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 221 V (220 Ω)
R194	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R195	7030003820	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R198	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R197	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R198	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R199	7030003380	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R200	7030003200	S.RESISTOR.	ERJ3GEYJ 100 V (10 Ω)
R201	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R202 R203	7030003200 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 472 V (4.7 kΩ)
R204	7030003320	S.RESISTOR	MCR10EZHJ 18 Ω (180)
R205	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R206	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R207	7030003880	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R208	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R211	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R212	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)
R213 R214	7030003440 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)
R215	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R218	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R217	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R216	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R219	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R220 R221	7030003840 7030003300	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 680 V (86 Ω)
R225	7030003300	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R226	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R227	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R228	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R229	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R231 R232	7030003310 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 820 V (82 Ω) ERJ3GEYJ 102 V (1 kΩ)
R235	7030003440	S.RESISTOR	ERJ3GEYJ 393 V (39 kQ)
R238	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R237	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R236	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R239	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R240 R242	7030003380 7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 390 V (39 Ω)
R243	7030003270	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R244	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R245	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R246	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R247	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R248 R249	7030003800 7030001130	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) MCR50JZHJ 100 Ω (101)
R251	7030001130	S.RESISTOR	MCR50JZHJ 10 Ω (101)
R252	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R253	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)
R255	7030000170	S.RESISTOR	MCR10EZHJ 18 Ω (180)
R256	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kQ)
R257 R261	7030003420 70300032 6 0	S.RESISTOR S.RESISTOR	ERJ3GEYJ 861 V (680 Ω) ERJ3GEYJ 470 V (47 Ω)
R262	7030003200	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R263	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (880 Ω)
R284	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R265	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R266	7030003880 7030003370	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 271 V (270 Ω)
R267 R268	7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R289	7030003460	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R270	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R271	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R272	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R273 R274	7030003650 7030003490	S.RESISTOR S.RESISTOR	ERJ3GEYJ 583 V (56 kΩ) ERJ3GEYJ 272 V (2.7 kΩ)
R275	7030003490	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R278	7030003220	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R277	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R278	7030003530	S.RESISTOR	ERJ3GEYJ 582 V (5.6 kΩ)
R279	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R280 R284	7030003530 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 582 V (5.8 kΩ) ERJ3GEYJ 271 V (270 Ω)
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[MAIN C			
REF.	ORDER NO.		DESCRIPTION
NO.	NO.		
R285	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R288	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R287	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R266	7030003480	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R269 R290	7310003800	S.TRIMMER S.RESISTOR	EVM-1X\$X50 B54 (503) ERJ3GEYJ 102 V (1 kΩ)
R291	7030003440	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R292	7030003460	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R293	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R294	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R295	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R298 R297	7030003880	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 470 V (47 Ω)
R298	7030003200	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R299	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R300	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R301	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R302	7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R303 R304	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 152 V (1.5 kΩ)
R305	7030003400	S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R308	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R307	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R306	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R309 R310	7030003660 7030003850	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 563 V (56 kΩ)
R311	7030003650	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R312	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R313	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
R314	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R315	703000380	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) ERJ3GEYJ 101 V (100 Ω)
R318 R317	7030003320	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R316	7030003360	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R319	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R320	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R321	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R322 R323	7030003880	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R324	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R325	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)
R326	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R327 R326	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R329	7030003400 7030003870	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 823 V (62 kΩ)
R330	7030003600	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R331	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R332	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R333 R350	7030003560 7030000100	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kQ) MCR10EZHJ 4.7 Q (4R7)
R351	7030000100	S.RESISTOR	MCR10EZHJ 4.7 Ω (4R7)
R352	7030003570	S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ)
R353	7030003770	S.RESISTOR	ERJ3GEYJ 564 V (580 kΩ)
R354	7030003350 7030003370	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)
R355 R356	7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 271 V (270 Ω) ERJ3GEYJ 103 V (10 kΩ)
R357	7030003500	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R356	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R359	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R380 R381	7030003560 7030003580	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R381	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R383	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R384	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R365	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)
R368 R367	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R366	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R389	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R370	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R371	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R372 R373	7030003880 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 223 V (22 kΩ)
R374	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (2.2 kQ)
R375	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R378	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)

R377	REF. NO.	ORDER NO.	ı	DESCRIPTION
R379	R377	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R380			1	ERJ3GEYJ 223 V (22 kΩ)
R381 7030003500 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R383 7030003500 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R386 7030003700 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R386 7030003700 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R386 7030003700 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R388 7030003700 S.RESISTOR ERJ3GEYJ 122 V (1.2 kQ) R388 7030003400 S.RESISTOR ERJ3GEYJ 122 V (1.2 kQ) R381 7030003400 S.RESISTOR ERJ3GEYJ 122 V (1.2 kQ) R382 7030003400 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R382 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R383 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R384 7030003500 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R384 7030003500 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R386 7030003500 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R386 7030003400 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R386 7030003400 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R386 7030003400 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R386 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100			!	
R382				
R389			1	
R388				ERJ3GEYJ 332 V (3.3 kΩ)
R388				
R386		1	1	
R389 7030003470 S.RESISTOR				• •
R390				• •
R391				
R392				
R394 7030003760 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R398 703000340 S.RESISTOR FRJ3GEYJ 472 V (4.7 kΩ) R398 703000340 S.RESISTOR FRJ3GEYJ 210 V (100 kΩ) R399 703000380 S.RESISTOR FRJ3GEYJ 101 V (100 kΩ) R400 703000380 S.RESISTOR FRJ3GEYJ 101 V (100 kΩ) R401 703000380 S.RESISTOR FRJ3GEYJ 101 V (100 kΩ) R402 703000380 S.RESISTOR FRJ3GEYJ 103 V (100 kΩ) R403 703000380 S.RESISTOR FRJ3GEYJ 103 V (100 kΩ) R404 703000380 S.RESISTOR FRJ3GEYJ 103 V (100 kΩ) R405 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R406 7030003780 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R407 7030003780 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R408 7030003780 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R410 7030003780 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R411 703000380 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R412 703000380 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R413 703000380 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R414 703000380 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R415 703000380 S.RESISTOR FRJ3GEYJ 393 V (20 kΩ) R416 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R417 703000380 S.RESISTOR FRJ3GEYJ 474 V (470 kΩ) R418 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R419 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R419 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R419 703000380 S.RESISTOR FRJ3GEYJ 393 V (30 kΩ) R420 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R421 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R422 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R423 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R424 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R426 703000380 S.RESISTOR FRJ3GEYJ 374 V (470 kΩ) R427 751001010 S.THEMISTOR FRJ3GEYJ 374 V (470 kΩ) R428 703000380 S.RESISTOR FRJ3GEYJ 370 V (10 kΩ) R431 703000380 S.RESISTOR FRJ3GEYJ 370 V (10 kΩ) R432 703000380 S.RESISTOR FRJ3GEYJ 300 V (10 kΩ) R433 703000380				
R395 7030003520 S.RESISTOR R30GEYJ 472 V (4.7 kΩ)				•
R398				
R397 7510000470 S.TRIMMER EVM-IXSX50 B14 (103) R398 730003380 S.RESISTOR ENJAGEYJ 101 V (100 Ω) R400 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R401 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R402 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R404 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R405 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R406 7030003780 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R407 7030003780 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)				
R390				
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R405 7030003830 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R408 7030003780 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R408 7030003780 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R409 7030003780 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R410 7030003780 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R411 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R412 7030003560 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R413 7030003800 S.RESISTOR ERJ3GEYJ 233 V (29 kΩ) R414 7030003800 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R415 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R416 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R417 7030003800 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R418 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R420 7030003840 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R421 7030003400 S.RESISTOR ERJ3GEYJ 474 V (4				, ,
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R425 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R426 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R427 7510001010 S.THERMISTOR NTCCF2012 4CH 154KCT R428 7030003720 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R430 703000380 S.RESISTOR ERJ3GEYJ 84 V (860 kΩ) R431 7030003470 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R432 7030003450 S.RESISTOR ERJ3GEYJ 162 V (1.2 kΩ) R433 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R434 7030003460 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R436 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R437 7030003400 S.RESISTOR ERJ3GEYJ 472 V (470 kΩ) R438 7510000470 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R440 7310003610 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10				
R426 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R427 7510001010 S.THERMISTOR NTCCF2012 4CH 154KCT R428 7030003780 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R430 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R431 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R432 7030003450 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R433 7030003450 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R434 7030003400 S.RESISTOR ERJ3GEYJ 172 V (47 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R436 7030003760 S.RESISTOR ERJ3GEYJ 471 V (470 κΩ) R437 7030003400 S.RESISTOR ERJ3GEYJ 472 V (470 kΩ) R438 7030003500 S.RESISTOR ERJ3GEYJ 472 V (470 kΩ) R440 7310003610 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003500 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 7030003600 S.RESISTOR ERJ3GEYJ 103 V (1				
R428 7030003720 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R429 7030003760 S.RESISTOR ERJ3GEYJ 864 V (860 kΩ) R430 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R431 7030003470 S.RESISTOR ERJ3GEYJ 162 V (1.8 kΩ) R432 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R433 7030003400 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R434 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R435 7030003400 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R436 7030003400 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R438 7510000470 S.THERMISTOR TN20-2V221LT R440 7310003610 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003520 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R444 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) <td></td> <td></td> <td></td> <td></td>				
R429 7030003760 S.RESISTOR ERJ3GEYJ 864 V (860 kΩ) R430 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R431 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R432 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R433 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Q) R436 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R438 751000470 S.THERMISTOR TN20-2V221LT R439 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003520 S.RESISTOR ERJ3GEYJ 170 V (100 Q) R442 7030003560 S.RESISTOR ERJ3GEYJ 101 V (100 Q) R443 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R444 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R445 7030003660 S.RESISTOR ERJ3GEYJ 393 V (39 kQ) <td></td> <td></td> <td></td> <td></td>				
R430 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R431 7030003470 S.RESISTOR ERJ3GEYJ 162 V (1.8 kΩ) R432 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R433 7030003450 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R434 7030003560 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 kΩ) R436 7030003430 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003400 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R438 751000470 S.THERMISTOR TN20-2V221LT R439 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R440 7310003520 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R441 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R442 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R444 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 703000360 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)				
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R433 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R434 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R436 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 621 V (620 Ω) R438 7510000470 S.THERMISTOR TN20-2V221LT R439 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R440 7310003610 S.TRIMMER EVM-1XSX50 B14 (103) R441 7030003520 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R443 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R444 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R446 703000360 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 703000360 S.RESISTOR ERJ3GEYJ 17 V (47 kΩ)	R431			ERJ3GEYJ 162 V (1.8 kΩ)
R434 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R436 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 821 V (820 Ω) R438 7510000470 S.THERMISTOR TN20-2V221LT R440 7310003610 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R443 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R444 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R446 703000360 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R449 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R450 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) </td <td></td> <td></td> <td></td> <td></td>				
R435 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R436 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 621 V (620 Ω) R438 7510000470 S.THERMISTOR TN20-2V221LT R440 7310003610 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R441 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 7030003560 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R443 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R444 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 7030003860 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R447 7030003840 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 7030003860 S.RESISTOR ERJ3GEYJ 393 V (47 kΩ) R448 7030003840 S.RESISTOR ERJ3GEYJ 393 V (47 kΩ) R449 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)				
R436 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R437 7030003430 S.RESISTOR ERJ3GEYJ 821 V (820 Ω) R436 7510000470 S.THERMISTOR TN20-2V221LT R439 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R440 7310003610 S.TRIMMER EVM-1XSX50 B14 (103) R441 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R442 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R444 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 7030003660 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R447 7030003840 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 703000360 S.RESISTOR ERJ3GEYJ 393 V (47 kΩ) R447 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R448 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R450 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)				
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R443 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R444 703003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R447 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R450 7030003560 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R451 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)				
R444 703003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R445 703003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 703003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R447 703003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 7030003440 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R450 703003560 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R451 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)				
R445 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R446 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R447 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R448 7030003440 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R450 7030003560 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R451 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R452 7030003830 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)				
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R452 7030003830 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)				ERJ3GEYJ 103 V (10 kΩ)
	H452	/030003830	S.RESISTOR	EHJ3GEYJ 393 V (39 kΩ)

[MAIN UNIT]

REF. No.	ORDER No.	·	DESCRIPTION		REF. NO.	ORDER No.		DESCRIPTION
R453	7030003460	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		R532	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R454	7030003360	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)	1 1	R533	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R455	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	1 1	R534	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R456	7030003760	S.RESISTOR .	ERJ3GEYJ 474 V (470 kΩ)	iΙ	R535	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R457	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R536	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)
R456	7030003460	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ)		R537 R539	7030003760 7410000770	S.RESISTOR S.ARRAY	ERJ3GEYJ 474 V (470 kΩ) EXB-V4V 102JV (1 kΩ)
R459 R460	7030003440 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 KΩ)		R540	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R461	7030003320	S.RESISTOR	ERJ3GEYJ 623 V (62 kΩ)	1	R541	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R462	7030003670	S.RESISTOR	ERJ3GEYJ 623 V (62 kΩ)		R543	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)
R463	7030003660	S.RESISTOR	ERJ3GEYJ 663 V (66 kΩ)	1 1	R544	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R464	7030003790	S.RESISTOR	ERJ3GEYJ 624 V (620 kΩ)		R545	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R465	7030003770	S.RESISTOR	ERJ3GEYJ 564 V (560 kΩ)		R546	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R466	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)		R547	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R467	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ) ERJ3GEYJ 624 V (620 kΩ)		R546 R549	7030003440 7030003760	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 474 V (470 kΩ)
R466 R469	7030003790 7030003750	S.RESISTOR S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ)		R550	7030003760	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R470	7030003730	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)		R551	7030003570	S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ)
R471	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		R552	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R472	7030003420	S.RESISTOR	ERJ3GEYJ 661 V (660 Ω)	1 }	R553	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R473	7030003260	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	1	R554	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R474	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R555	7030003560	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R475	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	l I	R556	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R476	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Į Į	R557	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)
R476	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	l I	R556 R559	7410000770 7410000770	S.ARRAY S.ARRAY	EXB-V4V 102JV (1 kΩ) EXB-V4V 102JV (1 kΩ)
R479	7030003400 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 473 V (47 kΩ)		R560	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R460 R461	7030003640	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)		R561	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R462	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)	H	R562	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R463	7030003750	S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ)	i I	R563	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R464	7030003690	S.RESISTOR	ERJ3GEYJ 124 V (120 kΩ)		R564	7030003730	S.RESISTOR	ERJ3GEYJ 274 V (270 kΩ)
R465	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R565	7030003600	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R466	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	l i	R566	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R467	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)	1 1	R567	7410000750	S.ARRAY	EXB-V4V 104JV (100 kΩ)
R466	7030001040	S.RESISTOR	MCR50JZHJ 16 Ω (160)	1 1	R566	7410000750	S.ARRAY	EXB-V4V 104JV (100 kΩ)
R469	7030000020	S.RESISTOR	MCR10EZHJ 1 Ω (010)	1 1	R569 R570	7030003660 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R490	7410000770 7410000770	S.ARRAY S.ARRAY	EXB-V4V 102JV (1 kΩ) EXB-V4V 102JV (1 kΩ)	1 1	R571	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R491 R492	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1 1	R573	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R493	7030003440	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	1 1	R574	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R494	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)	1 1	R575	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R495	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R576	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R496	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	ll	R576	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)
R497	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R579	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R496	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	H	R560	7030003260	S.RESISTOR	ERJ3GEYJ 330 V (33 Ω)
R499	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R561	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 153 V (15 kΩ)
R500	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)		R562 R563	7030003560 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R501 R502	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R564	7030003040	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R503	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R565	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R504	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R567	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R505	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R566	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R506	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R569	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R507	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R590	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R506	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R591	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R509	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R592	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R510	7030003440 7410000750	S.RESISTOR S.ARRAY	ERJ3GEYJ 102 V (1 kΩ) EXB-V4V 104JV (100 kΩ)		R593 R594	7030003600 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 102 V (1 kΩ)
R511 R512	7410000750	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R595	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R512	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R596	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R514	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R597	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R515	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R596	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R516	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R599	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R517	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1 1	R600	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R516	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R601	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R519	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R602	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R522	7410000770	S.ARRAY	EXB-V4V 102JV (1 kΩ)		R603 R604	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R523	7030003660 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 473 V (47 kΩ)		R605	7030003660 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R524 R525	7030003640	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R606	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R525	7030003660	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R607	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 κΩ)
R527	7030003640	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)		R606	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R526	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R610	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
	7030003660	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R613	7030000020	S.RESISTOR	MCR10EZHJ 1 Ω (010)
R529							1 0 05010500	
R529 R530	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R614	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
	1	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 224 V (220 kΩ)		R614 R615	7030003560 7030003320	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 101 V (100 Ω)

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REF. NO.	ORDER NO.	DESCRIPTION	REF. NO.	ORDER NO.	DESCRIPTION
D040	700000000	O DECISION EDITORY LAST VILLAGO	000	4000007010	S CEDAMIC CARRO CHANAGO TA
R616	7030003600	S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)	C62	4030007010	S.CERAMIC C1608 CH 1H 100D-T-A
R617	7030003600	S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)	C63	4030006880	S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A
R616	7030003800	S.RESISTOR ERJ3GEYJ 105 V (1 MQ)	C64	4030006860	
R619	7030003440	S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)	C65	4030006910	
R820	7030003260	S.RESISTOR ERJ3GEYJ 470 V (47 Ω)	C86	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
R621	7030003240	S.RESISTOR ERJ3GEYJ 220 V (22 Ω)	C67	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
R622	7030004030	S.RESISTOR ERJ3GEYJ 5R6 V (5.6 Ω)	C68	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
R623	7030000160	S.RESISTOR MCR10EZHJ 22 Ω (220)	C89	4030006910	S.CERAMIC C1608 CH 1H 0R5C-T-A
R624	7030003560	S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)	C90	4030006910	S.CERAMIC C1608 CH 1H 0R5C-T-A
R625	7030003560	S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)	C91	4030006950	S.CERAMIC C1808 CH 1H 040C-T-A
R626	7030003460	S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ)	C92	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
R629	7510000390	S.THERMISTOR TN20-3N153LT	C93	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
			C94	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
			C95	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C1	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C96	4550000530	S.TANTALUM TESVA IV 104M1-8L
C2	4030010070	S.CERAMIC C1808 X7S 1C 104K-T-A	C97	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C3	4510004600	ELECTROLITIC 16 MV 1000 HC	C98	4030008880	S.CERAMIC C2012 JF 1C 105Z-T-A
C4	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C99	4030006660	S.CERAMIC C2012 JF 1C 105Z-T-A
C5	4510004640	S.ELECTROLITIC ECEV1CA470SP	C100	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C6	4030006660	S.CERAMIC C1806 JB 1H 102K-T-A	C101	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C7	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C105	4030006660	S.CERAMIC C2012 JF 1C 105Z-T-A
C8	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C108	4030006660	S.CERAMIC C1808 JB 1H 102K-T-A
C9	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C110	4030006990	S.CERAMIC C1808 CH 1H 060D-T-A
C10	4510004640	S.ELECTROLITIC ECEV1CA470SP	C111	4030007000	S.CERAMIC C1806 CH 1H 090D-T-A
C11	4510004630	S.ELECTROLITIC ECEV1CA100SR	C112	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A
C12	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C113	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C13	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C114	4030006940	S.CERAMIC C1808 CH 1H 030C-T-A
C14	4510004640	S.ELECTROLITIC ECEV1CA470SP	C115	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C18	4510004630	S.ELECTROLITIC ECEV1CA100SR	C116	4030006660	S.CERAMIC C1808 JB 1H 102K-T-A
C17	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C117	4030006960	S.CERAMIC C1608 CH 1H 050C-T-A
C16	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C118	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
C19	4510004640	S.ELECTROLITIC ECEV1CA470SP	C119	4030006920	S.CERAMIC C1608 CH 1H 010C-T-A
C20	4510004630	S.ELECTROLITIC ECEV1CA100SR	C120	4030006960	S.CERAMIC C1808 CH 1H 050C-T-A
C21	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C121	4030006960	S.CERAMIC C1608 CH 1H 050C-T-A
C30	4030011190	S.CERAMIC GRM42-6 CH 270J 500PT	C122	4030006940	S.CERAMIC C1808 CH 1H 030C-T-A
C31	4030011200	S.CERAMIC GRM42-8 CH 300J 500PT	C123	4030007130	S.CERAMIC C1608 CH 1H 101J-T-A
C32	4030011170	S.CERAMIC GRM42-8 CH 160J 500PT	C125	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C33	4030011260	S.CERAMIC GRM42-6 W5R 102K 500PT	C126	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C34	4030011160	S.CERAMIC GRM42-8 CH 150J 500PT	C127	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C35	4030006660	S.CERAMIC C1806 JB 1H 102K-T-A	C128	4550000530	S.TANTALUM TESVA IV 104M1-8L
C36	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C135	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C37	4030008660	S.CERAMIC C1606 JB 1H 102K-T-A	C136	4030007050	S.CERAMIC C1608 CH 1H 220J-T-A
C38	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C137	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C39	4030011250	S.CERAMIC GRM42-8 W5R 471K 500PT	C136	4550000530	S.TANTALUM TESVA IV 104M1-8L
C40	4030011020	S.CERAMIC GRM42-8 CK 010C 500PT S.CERAMIC GRM42-8 CH 090D 500PT	C139 C140	4030010070 4550002960	S.CERAMIC C1608 X7S 1C 104K-T-A S.TANTALUM TEMSVA 1C 225M-8L
C41	4030011110				
C42	4030008880	S.CERAMIC C1606 JB 1H 102K-T-A S.CERAMIC C1606 JB 1H 102K-T-A	C141 C142	4550002960 4030006660	S.TANTALUM TEMSVA 1C 225M-8L S.CERAMIC C1808 JB 1H 102K-T-A
C43	4030006660		C142	4550002980	S.TANTALUM TEMSVA 1C 225M-8L
C44	4030011020	S.CERAMIC GRM42-6 CK 010C 500PT S.CERAMIC GRM42-6 CK 010C 500PT	C143	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
C45	4030011020	S.CERAMIC GRM42-6 CH 100D 500PT	C145	4510006220	S.ELECTROLITIC ECEV1CA101UP
C48	4030011120		C148	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C47	4030008680 4030008680	S.CERAMIC C1606 JB 1H 102K-T-A S.CERAMIC C1606 JB 1H 102K-T-A	C148	4030008800	S.CERAMIC C1608 CH 1H 330J-T-A
C48 C49	4030011200	S.CERAMIC C1606 3B TH 102K-1-A	C148	4030007070	S.CERAMIC C1608 CH 1H 3305-1-A
C50	4030011200	S.CERAMIC GRM42-8 CH 240J 500PT	C150	4030008660	S.CERAMIC C1008 35 14 1028-1-4
C55	4550008480	S.TANTALUM TEMSVA 1C 475M-8L	C151	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C56	4030007040	S.CERAMIC C1606 CH 1H 160J-T-A	C152	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C57	4030007040	S.CERAMIC C1606 CH 1H 160J-T-A	C153	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C58	4030007040	S.CERAMIC C1606 CH 1H 1003-1-A	C155	4030007060	S.CERAMIC C1608 CH 1H 270J-T-A
C59	4510004830	S.ELECTROLITIC ECEVICA 100SR	C156	4030006990	S.CERAMIC C1606 CH 1H 060D-T-A
C60	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C157	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C61	4030006660	S.CERAMIC C1806 JB 1H 102K-T-A	C158	4030006930	S.CERAMIC C1606 CH 1H 020C-T-A
C62	4030007020	S.CERAMIC C1606 CH 1H 120J-T-A	C159	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A
C63	4030007010	S.CERAMIC C1606 CH 1H 100D-T-A	C160	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C64	4030007010	S.CERAMIC C1608 JB 1H 102K-T-A	C181	4030006880	S.CERAMIC C1806 JB 1H 102K-T-A
C65	4030000000	S.CERAMIC C1606 CH 1H 020C-T-A	C162	4030006990	S.CERAMIC C1608 CH 1H 060D-T-A
C66	4030008860	S.CERAMIC C1606 JB 1H 102K-T-A	C163	4030006880	S.CERAMIC C1606 JB 1H 102K-T-A
C66	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C164	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C69	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C185	4030008680	S.CERAMIC C1606 JB 1H 102K-T-A
C75	4030000000	S.CERAMIC C1606 CH 1H 220J-T-A	C166	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C78	4030007030	S.CERAMIC C1606 CH 1H 150J-T-A	C170	4030006980	S.CERAMIC C1606 CH 1H 070D-T-A
C77	4030007030	S.CERAMIC C1808 CH 1H 050C-T-A	C171	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C78	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C172	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C79	4030006950	S.CERAMIC C1606 CH 1H 040C-T-A	C173	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C80	4030008880	S.CERAMIC C1606 JB 1H 102K-T-A	C174	4030006960	S.CERAMIC C1606 CH 1H 050C-T-A
C81	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C175	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
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NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
0177	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A	C268	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
C178	4030009570	S.CERAMIC	C1808 CH 1H 0R3B-T-A	C289	4030006910	S.CERAMIC	C1608 CH 1H 0R5C-T-A
C181	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A	C270	4030007100	S.CERAMIC	C1606 CH 1H 560J-T-A
C182	4030009570	S.CERAMIC	C1808 CH 1H 0R3B-T-A	C271	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C184 C185	4030007090 4030008880	S.CERAMIC S.CERAMIC	C1808 CH 1H 470J-T-A C1808 JB 1H 102K-T-A	C273 C275	4030008950	S.CERAMIC S.CERAMIC	C1606 CH 1H 040C-T-A C1606 JB 1H 102K-T-A
188	4030008980	S.CERAMIC	C1808 CH 1H 050C-T-A	C276	4030006930	S.CERAMIC	C1608 CH 1H 020C-T-A
2167	4030008900	S.CERAMIC	C1808 JB 1E 103K-T-A	C277	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
186	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C278	4030006880	S.CERAMIC	C1606 JB 1H 102K-T-A
189	4510004840	1	C ECEV1CA470SP	C279	4030006880	S.CERAMIC	C1608 JB 1H 102K-T-A
2190	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	C260	4030011530	S.CERAMIC	C1606 CH 1H 110J-T-A
191	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A	C281	4030008910	S.CERAMIC	C1606 CH 1H 0R5C-T-A
2193	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C282	4030008900	S.CERAMIC	C1808 JB 1E 103K-T-A
194	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	C283	4030008900	S.CERAMIC	C1808 JB 1E 103K-T-A
195	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C284	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
198	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C285	4030008900	S.CERAMIC	C1606 JB 1E 103K-T-A
197	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C268	4030008660	S.CERAMIC	C1608 JB 1H 102K-T-A
196	4510004830		C ECEV1CA100SR	C290	4030007000	S.CERAMIC	C1608 CH 1H 090D-T-A
199	4030008880 4030008880	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A C1808 JB 1H 102K-T-A	C291 C292	4030008940	S.CERAMIC S.CERAMIC	C1606 CH 1H 030C-T-A C1606 CH 1H 180J-T-A
200	4030008880	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A	C292	4030007040	S.CERAMIC	C1808 JB 1H 102K-T-A
202	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C294	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
203	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C295	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
204	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C297	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A
210	4030007130	S.CERAMIC	C1808 CH 1H 101J-T-A	C298	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
211	4030008860	S,CERAMIC	C1808 JB 1H 102K-T-A	C299	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
212	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C300	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
213	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A	C301	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
214	4030008940	S.CERAMIC	C1808 CH 1H 030C-T-A	C302	4030008930	S,CERAMIC	C1806 CH 1H 020C-T-A
215	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A	C303	4030008940	S.CERAMIC	C1806 CH 1H 030C-T-A
216	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C304	4030008860	S.CERAMIC	C1806 JB 1H 102K-T-A
217	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C305	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
218	4030008880	S.CERAMIC	C1806 JB 1H 102K-T-A	C306	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
219	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A	C307	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
220	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	C311	4030008950	S.CERAMIC	C1806 CH 1H 040C-T-A
221	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	C313 C314	4030010780	S.CERAMIC S.CERAMIC	C1806 CH 1H 1R5C-T-A C1608 CH 1H 270J-T-A
222	4030006860	S.CERAMIC	C1806 JB 1H 102K-T-A C1808 CH 1H 330J-T-A	C314	4030007060	S.CERAMIC	C1608 JB 1H 102K-T-A
225	4030007070 4030006940	S.CERAMIC S.CERAMIC	C1808 CH 1H 030C-T-A	C313	4030008940	S.CERAMIC	C1608 CH 1H 030C-T-A
226	4030006660	S.CERAMIC	C1606 JB 1H 102K-T-A	C319	4030008950	S.CERAMIC	C1808 CH 1H 040C-T-A
229	4030007040	S.CERAMIC	C1808 CH 1H 180J-T-A	C320	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
231	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C321	4030008880	S.CERAMIC	C1606 JB 1H 102K-T-A
232	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A	C325	4030011030	S.CERAMIC	GRM42-8 CK 1R5C 500PT
233	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C328	4030010780	S.CERAMIC	C1608 CH 1H 1R5C-T-A
234	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A	C327	4030010760	S.CERAMIC	C1608 CH 1H 1R5C-T-A
235	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C326	4030008660	S.CERAMIC	C1808 JB 1H 102K-T-A
236	4030007010	S.CERAMIC	C1808 CH 1H 100D-T-A	C329	4030006880	S.CERAMIC	C1808 JB 1H 102K-T-A
2238	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C330	4030006940	S.CERAMIC	C1608 CH 1H 030C-T-A
239	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A	C331	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
240	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C332	4030006680	S.CERAMIC	C2012 JF 1C 105Z-T-A
241	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C333	4030008930	S.CERAMIC	C1608 CH 1H 020C-T-A
242	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A C1808 JB 1H 102K-T-A	C334 C335	4030008930	S.CERAMIC S.CERAMIC	C1606 CH 1H 020C-T-A C1608 CH 1H 070D-T-A
243	4030008880 4030008880	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A	C338	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
2245	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C337	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A
246	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C338	4030008680	S.CERAMIC	C1608 JB 1H 102K-T-A
247	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C339	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A
248	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C340	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
249	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C341	4030006990	S.CERAMIC	C1808 CH 1H 060D-T-A
250	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C342	4030008930	S.CERAMIC	C1808 CH 1H 020C-T-A
251	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C345	4030011090	S.CERAMIC	GRM42-6 CH 070D 500PT
252	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C348	4030011080	S.CERAMIC	GRM42-6 CH 040C 500PT
253	4030008880	S.CERAMIC	C2012 JF 1C 105Z-T-A	C347	4030011110	S.CERAMIC	GRM42-6 CH 090D 500PT
255	4030008830	S.CERAMIC	C1808 SL 1H 331J-T-A	C348	4030011100	S.CERAMIC	GRM42-8 CH 080D 500PT
258	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A	C349	4030011070	S.CERAMIC	GRM42-6 CH 050C 500PT
257	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C350	4030011250	S.CERAMIC	GRM42-6 W5R 471K 500F
258	4030007080	S.CERAMIC	C1808 CH 1H 390J-T-A	C351	4030006880	S.CERAMIC	C1808 JB 1H 102K-T-A
259	4030007050	S.CERAMIC	C1808 CH 1H 220J-T-A	C355	4030006880	S.CERAMIC	C1808 JB 1H 102K-T-A
C280	4030008980	S.CERAMIC	C1808 CH 1H 070D-T-A	C358	4030011250	S.CERAMIC	GRM42-8 W5R 471K 500F
2281	4030008880	S.CERAMIC	C1808 JB 1H 102K-T-A	C357	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
1000	4030006880 4030008980	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A C1808 CH 1H 050C-T-A	C358 C359	4030011020	S.CERAMIC S.CERAMIC	GRM42-6 CK 010C 500PT C1808 JB 1H 102K-T-A
,	ALL STREET, SWALL	1		C359	4030008880	S.CERAMIC	GRM42-8 CH 100D 500PT
C282 C283		I C CEDAMIC					
283 284	4030008860	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A C1808 CH 1H 470J-T-A	1 1			
283		S.CERAMIC S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-1-A C1808 CH 1H 470J-T-A C1608 CH 1H 0R5C-T-A	C362 C383	4030006880 4030011020	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A GRM42-8 CK 010C 500PT

[MAIN U	[TINU NIAN] [TINU NIAN					
REF. NO.	ORDER NO.	DESCRIPTION	REF. NO.	ORDER NO.	DESCRIPTION	
C365	4030011120	S.CERAMIC GRM42-6 CH 100D 500PT	C477	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	
C366	4030011120	S.CERAMIC GRM42-8 CH 050C 500PT	C476	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	
C387	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C479	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	
C369	4510004630	S.ELECTROLITIC ECEV1CA100SR	C460	4610001260	S.TRIMMER ECR-JA020 E12W	
C370	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C481	4030008560	S.CERAMIC C1606 CH 1H 300J-T-A	
C372	4030006990	S.CERAMIC C1608 CH 1H 060D-T-A	C482	4030007120	S.CERAMIC C1608 CH 1H 820J-T-A	
C373	4030006880	S.CERAMIC C1608 JB 1H 102K-T-A	C483	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	
C375 C376	4030007000 4030008660	S.CERAMIC C1808 CH 1H 090D-T-A S.CERAMIC C1608 JB 1H 102K-T-A	C464 C485	4030006920	S.CERAMIC C1606 CH 1H 010C-T-A S.CERAMIC C1606 JB 1H 102K-T-A	
C377	4030006930	S.CERAMIC C1608 CH 1H 020C-T-A	C486	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	
C380	4030006940	S.CERAMIC C1606 CH 1H 030C-T-A	C487	4030006860	S.CERAMIC C1806 JB 1H 102K-T-A	
C361	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C468	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	
C362	4030007010	S.CERAMIC C1606 CH 1H 100D-T-A	C491	4030007070	S.CERAMIC C1606 CH 1H 330J-T-A	
C385	4030007030	S.CERAMIC C1606 CH 1H 150J-T-A	C492	4030006660	S.CERAMIC C1808 JB 1H 102K-T-A	
C366	4030006960	S.CERAMIC C1608 CH 1H 050C-T-A	C493	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	
C387 C388	4030006960 4030006860	S.CERAMIC C1608 CH 1H 050C-T-A S.CERAMIC C1608 JB 1H 102K-T-A	C500 C501	4030010070	S.CERAMIC C1606 X7S 1C 104K-T-A S.CERAMIC C1606 X7S 1C 104K-T-A	
C389	4030006910	S.CERAMIC C1606 CH 1H 0R5C-T-A	C501	4510008260	S.ELECTROLITIC ECEVIAA471UP	
C390	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C503	4510008220	S.ELECTROLITIC ECEV1CA101UP	
C391	4030007010	S.CERAMIC C1608 CH 1H 100D-T-A	C504	4510006260	S.ELECTROLITIC ECEVIAA471UP	
C392	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C505	4510006220	S.ELECTROLITIC ECEV1CA101UP	
C393	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C506	4510004840	S.ELECTROLITIC ECEV1CA470SP	
C394	4030006910	S.CERAMIC C1608 CH 1H 0R5C-T-A	C507	4510006240	S.ELECTROLITIC ECEV1CA221P	
C395	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A	C508	4510004640	S.ELECTROLITIC ECEVICA470SP	
C396 C397	4030006860 4030008660	S.CERAMIC C1606 JB 1H 102K-T-A S.CERAMIC C1606 JB 1H 102K-T-A	C509 C510	4510008250 4510005810	S.ELECTROLITIC ECEV1CA331UP S.ELECTROLITIC ECEV1HAR47R	
C398	4030006910	S.CERAMIC C1608 CH 1H 0R5C-T-A	C511	4550003250	S.TANTALUM TEMSVA 1V 474M-8L	
C399	4030008910	S.CERAMIC C1608 CH 1H 0R5C-T-A	C512	4550003250	S.TANTALUM TEMSVA 1V 474M-8L	
C402	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C513	4510004440	S.ELECTROLITIC ECEV1HA010SR	
C403	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C514	4510004440	S.ELECTROLITIC ECEV1HA010SR	
C404	4550000530	S.TANTALUM TESVA 1V 104M1-8L	C515	4030008880	S.CERAMIC C2012 JF 1C 105Z-T-A	
C405	4550006480	S.TANTALUM TEMSVA 1C 475M-8L	C516	4030008680	S.CERAMIC C2012 JF 1C 105Z-T-A	
C410 C411	4030006990 4030007000	S.CERAMIC C1808 CH 1H 080D-T-A S.CERAMIC C1808 CH 1H 090D-T-A	C517 C518	4510004630 4030008880	S.ELECTROLITIC ECEV1CA100SR S.CERAMIC C2012 JF 1C 105Z-T-A	
C412	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A	C519	4030006650	S.CERAMIC C1608 JB 1H 471K-T-A	
C413	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C521	4510004830	S.ELECTROLITIC ECEV1CA100SR	
C414	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A	C522	4030006660	S.CERAMIC C2012 JF 1C 105Z-T-A	
C416	4030006960	S.CERAMIC C1606 CH 1H 050C-T-A	C523	4030006650	S.CERAMIC C1608 JB 1H 471K-T-A	
C417	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C525	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	
C416	4030006920 4030006960	S.CERAMIC C1808 CH 1H 010C-T-A	C526	4030010070	S.CERAMIC C1808 X7S 1C 104K-T-A	
C419 C420	4030006960	S.CERAMIC C1606 CH 1H 050C-T-A S.CERAMIC C1606 CH 1H 060D-T-A	C527 C526	4030010070 4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A S.CERAMIC C1608 X7S 1C 104K-T-A	
C421	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A	C529	4030008900	S.CERAMIC C1608 JB 1E 103K-T-A	
C422	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A	C530	4030007000	S.CERAMIC C1808 CH 1H 090D-T-A	
C423	4030011260	S.CERAMIC C1608 CH 1H 271J-T-A	C531	4030010070	S.CERAMIC C1808 X7S 1C 104K-T-A	
C424	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C532	4030007000	S.CERAMIC C1608 CH 1H 090D-T-A	
C425	4550000530	S.TANTALUM TESVA 1V 104M1-8L	C533	4030010070	S.CERAMIC C1606 X7S 1C 104K-T-A	
C426 C427	4030006860 4030006860	S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1806 JB 1H 102K-T-A	C534 C535	4030007130 4030010070	S.CERAMIC C1606 CH 1H 101J-T-A S.CERAMIC C1608 X7S 1C 104K-T-A	
C428	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C538	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	
C429	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C537	4030007160	S.CERAMIC C1606 CH 1H 161J-T-A	
C430	4030008660	S.CERAMIC C1606 JB 1H 102K-T-A	C536	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	
C431	4030007050	S.CERAMIC C1606 CH 1H 220J-T-A	C539	4030006900	S.CERAMIC C1606 JB 1E 103K-T-A	
C432	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C540	4030010070	S.ČERAMIC C1606 X7S 1C 104K-T-A	
C433	4550000530	S.TANTALUM TESVA IV 104M1-8L	C541	4030010070	S.CERAMIC C1808 X7S 1C 104K-T-A	
C444 C445	4030010070 4550002980	S.CERAMIC C1608 X7S 1C 104K-T-A S.TANTALUM TEMSVA 1C 225M-6L	C542 C543	4030010070 4030006660	S.CERAMIC C1608 X7S 1C 104K-T-A S.CERAMIC C1608 JB 1H 102K-T-A	
C445 C448	4550002980	S.TANTALUM TEMSVA 1C 225M-6L S.TANTALUM TEMSVA 1C 225M-6L	C543	4030008660	S.CERAMIC C2012 JF 1C 105Z-T-A	
C447	4030008660	S.CERAMIC C1808 JB 1H 102K-T-A	C545	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A	
C448	4550002980	S.TANTALUM TEMSVA 1C 225M-8L	C546	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A	
C449	4030008680	S.CERAMIC C2012 JF 1C 105Z-T-A	C547	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	
C450	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C546	4030007070	S.CERAMIC C1608 CH 1H 330J-T-A	
C451	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A	C549	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	
C480	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A	C550	4030008850	S.CERAMIC C1608 JB 1H 471K-T-A	
C481 C462	4030006660 4030006660	S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A	C552 C553	4030006900 4030005110	S.CERAMIC C1606 JB 1E 103K-T-A S.CERAMIC C2012 JB 1E 473K-T-A	
C462 C463	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A	C554	4030005110	S.CERAMIC C2012 JB 1E 473K-1-A	
C464	4030008680	S.CERAMIC	C556	4030006900	S.CERAMIC C1606 JB 1E 103K-T-A	
C465	4030008660	S.CERAMIC C2012 JF 1C 105Z-T-A	C557	4030008860	S.CERAMIC C1608 JB 1C 153K-T-A	
C466	4030008680	S.CERAMIC C2012 JF 1C 105Z-T-A	C556	4030006900	S.CERAMIC C1608 JB 1C 333K-T-A	
C467	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C559	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	
C486	4030008860	S.CERAMIC C1606 JB 1H 102K-T-A	C560	4030006860	S.CERAMIC C1608 JB 1C 153K-T-A	
C489 C474	4510006220 4030006660	S.ELECTROLITIC ECEV1CA101UP S.CERAMIC C2012 JF 1C 105Z-T-A	C561 C562	4030006770 4030006770	S.CERAMIC C1606 JB 1H 562K-T-A S.CERAMIC C1606 JB 1H 562K-T-A	
C474	4030006860	S.CERAMIC C2012 JP 10 1032-1-A S.CERAMIC C1606 JB 1H 102K-T-A	C562	4030008770	S.CERAMIC C1806 JB 1H 562R-1-A S.CERAMIC C2012 JF 1C 105Z-T-A	
C478	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A	C564	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	
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REF.	ORDER	DESCRIPTION	REF.	ORDER	DESCRIPTION
NO.	NO.		NO.	NO.	
C565	4030007000	S.CERAMIC C1606 CH 1H 090D-T-A	C645	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C566	4030006880	S.CERAMIC C1606 JB 1H 102K-T-A	C646	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
C567	4030007000	S.CERAMIC C1608 CH 1H 090D-T-A	C847	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
C568	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C648	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C569	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C649	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C570	4030007120	S.CERAMIC C1808 CH 1H 620J-T-A	C650	4030006880	S.CERAMIC C1808 JB 1H 102K-T-A
C571	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C651	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C572	4030006900	S.CERAMIC C1606 JB 1E 103K-T-A	C652	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C573	4030007160	S.CERAMIC C1608 CH 1H 161J-T-A	C653	4030006880	S.CERAMIC C1808 JB 1H 102K-T-A
C574	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	C654	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C575	4030008900	S.CERAMIC C1606 JB 1E 103K-T-A	C655	4030006660	S.CERAMIC C1808 JB 1H 102K-T-A
C576	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C656	4030006680	S.CERAMIC C1608 JB 1H 102K-T-A
C577	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C657	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
C578	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C658	4030006860	S,CERAMIC C1808 JB 1H 102K-T-A
C579	4030006880	S.CERAMIC C1606 JB 1H 472K-T-A	C659	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A
C560	4030006680 4030006860	S.CERAMIC C2012 JF 1C 105Z-T-A S.CERAMIC C1606 JB 1H 102K-T-A	C680 C661	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A
C561 C582	4030006880	S.CERAMIC C1608 JB 1H 102K-T-A	C662	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C583	4030006880	S.CERAMIC C1608 JB 1H 102K-T-A	C663	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
C564	4030007070	S.CERAMIC C1608 CH 1H 330J-T-A	C664	4030006880	S.CERAMIC C1606 JB 1H 102K-T-A
C 56 5	4030006660	S.CERAMIC C1808 JB 1H 102K-T-A	C885	4030006860	S.CERAMIC C1806 JB 1H 102K-T-A
C586	4030006850	S.CERAMIC C1606 JB 1H 471K-T-A	C668	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C588	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	C667	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C569	4030005110	S.CERAMIC C2012 JB 1E 473K-T-A	C700	4030011080	S.CERAMIC GRM42-8 CH 060D 500PT
C590	4030008680	S.CERAMIC C2012 JF 1C 105Z-T-A	C705	4030007130	S.CERAMIC C1608 CH 1H 101J-T-A
C592	4030006900	S.CERAMIC C1608 JB 1E 103K-T-A	C708	4030007130	S.CERAMIC C1608 CH 1H 101J-T-A
C593	4030008860	S.CERAMIC C1608 JB 1C 153K-T-A	C707	4030006860	S,CERAMIC C1608 JB 1H 102K-T-A
C594	4030006900	S.CERAMIC C1608 JB 1C 333K-T-A	C706	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
C595	4030006860	S.CERAMIC C1608 JB 1C 153K-T-A	C709	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C596	4030008770	S.CERAMIC C1608 JB 1H 562K-T-A	C710	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C597	4030006770	S.CERAMIC C1606 JB 1H 562K-T-A	C712	4030010070	S.CERAMIC C1806 X7S 1C 104K-T-A
C598	4030008660	S.CERAMIC C2012 JF 1C 105Z-T-A	C713	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A
C599	4030007130	S.CERAMIC C1806 CH 1H 101J-T-A	C714	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C600	4030007120	S.CERAMIC C1608 CH 1H 820J-T-A	C715	4030008660	S.CERAMIC C1608 JB 1H 102K-T-A
C601	4030008470	S.CERAMIC C1608 JB 1H 272K-T-A	C716	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C602	4030009490	S.CERAMIC C1606 JB 1H 821K-T-A	C717	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C603	4510004640	S.ELECTROLITIC ECEVICA470SP	C716	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C604	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C719	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C605	4030006660 4030007020	S.CERAMIC C2012 JF 1C 105Z-T-A S.CERAMIC C1608 CH 1H 120J-T-A	C720 C721	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A
C606 C607	4030007020	S.CERAMIC C1608 JB 1C 333K-T-A	C723	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A S.CERAMIC C1808 JB 1H 102K-T-A
C608	4510004440	S.ELECTROLITIC ECEV1HA010SR	C724	4030007040	S.CERAMIC C1608 CH 1H 180J-T-A
C809	4510004630	S.ELECTROLITIC ECEVICATIONSR	C725	4030006660	S.CERAMIC C1608 JB 1H 102K-T-A
C610	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A	C726	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
C611	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C727	4030006860	S.CERAMIC C1608 JB 1H 102K-T-A
C612	4030010070	S.CERAMIC C1606 X7S 1 C 104K-T-A	C728	4510004640	S.ELECTROLITIC ECEV1CA470SP
C613	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C729	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A
C814	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A	C730	4030007030	S.CERAMIC C1608 CH 1H 150J-T-A
C615	4030008660	S.CERAMIC C2012 JF 1C 105Z-T-A	C731	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
C616	4030008860	S.CERAMIC C2012 JF 1C 105Z-T-A	C732	4030006920	S.CERAMIC C1806 CH 1H 010C-T-A
C617	4510004630	S.ELECTROLITIC ECEVICATOOSR	C733	4030006920	S.CERAMIC C1608 CH 1H 010C-T-A
C618	4030006900	S.CERAMIC C1606 JB 1E 103K-T-A	C734	4030006960	S.CERAMIC C1608 CH 1H 070D-T-A
C619	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A	C735	4030006910	S.CERAMIC C1606 CH 1H 0R5C-T-A
C620	4030007050	S.CERAMIC C1608 CH 1H 220J-T-A	C737	4030010780	S.CERAMIC C1608 CH 1H 1R5C-T-A
C821	4030007050	S.CERAMIC C1606 CH 1H 220J-T-A	C738	4030006990	S.CERAMIC C1606 CH 1H 080D-T-A
C623	4030009000	S.CERAMIC C2012 JB 1C 224K-T-A	C739	4030006940	S.CERAMIC C1808 CH 1H 030 C-T-A
C624	4030006680	S.CERAMIC C1608 JB 1H 102K-T-A	C740	4030006940	S.CERAMIC C1808 CH 1H 030C-T-A
C625	4510004830 4030010070	S.ELECTROLITIC ECEV1CA100SR S.CERAMIC C1608 X7S 1C 104K-T-A	C743 C745	4030006900	S.CERAMIC C1606 JB 1C 333K-T-A S.CERAMIC C1608 JB 1H 102K-T-A
C626 C627	4030010070	S.CERAMIC C1608 CH 1H 470J-T-A	C745	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A S.CERAMIC C1808 JB 1H 102K-T-A
C626	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C747	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
C629	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C746	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
2630	4030007090	S.CERAMIC C1808 CH 1H 470J-T-A	C749	4030006660	S.CERAMIC C1606 JB 1H 102K-T-A
2631	4030007090	S.CERAMIC C1608 CH 1H 470J-T-A	C750	4030010070	S.CERAMIC C1808 X7S 1C 104K-T-A
C632	4030007090	S.CERAMIC C1608 CH 1H 470J-T-A	C751	4030010070	S.CERAMIC C1608 X7S 1C 104K-T-A
C633	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C752	4030006860	S.CERAMIC C1808 JB 1H 102K-T-A
2634	4030007090	S.CERAMIC C1608 CH 1H 470J-T-A	C754	4030006860	S.CERAMIC C1806 JB 1H 102K-T-A
C635	4030007090	S.CERAMIC C1808 CH 1H 470J-T-A	C755	4550006350	S.TANTALUM TEMSVB2 1A 226M-8L
C636	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C756	4550006350	S.TANTALUM TEMSVB2 1A 226M-8L
C637	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C761	4030007060	S.CERAMIC C1808 CH 1H 390J-T-A
1	4030007090	S.CERAMIC C1606 CH 1H 470J-T-A	C762	4030006940	S.CERAMIC C1608 CH 1H 030C-T-A
C038 I	4030008660	S.CERAMIC C2012 JF 1C 105Z-T-A	C763	4030006860	S.CERAMIC C1606 JB 1H 102K-T-A
,			C764	4030008860	S.CERAMIC C1608 JB 1H 102K-T-A
C638 C639 C640	4030006960	S.CERAMIC C1808 CH 1H 050C-T-A	0,04	,	O.OC. ITAMIO OTOGO BE ITT TOZIC TA
C639	4030006960 4030006960	S.CERAMIC C1808 CH 1H 050C-T-A	C765	4030008660	S.CERAMIC C1608 JB 1H 102K-T-A
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REF. NO.	ORDER NO.	(DESCRIPTION
C769	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C770	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C771	4030006860	S.CERAMIC	C1806 JB 1H 102K-T-A
C772	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1806 JB 1H 102K-T-A C1806 JB 1H 102K-T-A
C773 C774	4030008660	S.CERAMIC	C1808 JB 1H 102K-T-A
C775	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C776	4030006860	S.CERAMIC	C1606 JB 1H 102K-T-A
C777	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C778	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1606 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C779 C780	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
C781	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C782	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C783	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C784	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
C785 C786	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1808 JB 1H 102K-T-A
C787	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C788	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C789	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C790	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C791	4030006880	S.CERAMIC	C1608 JB 1H 102K-T-A C1808 JB 1H 102K-T-A
C792 C793	4030006860 4030008660	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C795	4030008940	S.CERAMIC	C1808 CH 1H 030C-T-A
C796	4030008680	S.CERAMIC	C2012 JF 1C 105Z-T-A
C797	4030006850	S.CERAMIC	C1808 JB 1H 471K-T-A
C798	4030010070	S.CERAMIC	C1608 X7S 1C 104K-T-A
C799	4030010070	S.CERAMIC	C1808 X7S 1C 104K-T-A
J1	6450001440	CONNECTOR	HSJ1403-01-010
J2	6450001440	CONNECTOR	HSJ1403-01-010
J3	8510014790	CONNECTOR	53253-0210
J4	6510007080	CONNECTOR	P128A-02M
J5 J6	6510016570 8510013810	S.CONNECTOR S.CONNECTOR	52485-1291 10FM-1,0BP
J7	6510018480	CONNECTOR	52018-8845
J8	6510019320	CONNECTOR	1729 REAR CONNECTOR
W1	8900004880	CABLE	OPC-485
W2	7030003860	S.JUMPER	ERJ3GE JPW V
W3	7120000380	JUMPER	JPW 01 R-01
W4	7120000380	JUMPER	JPW 01 R-1
W5	7120000380	JUMPER	JPW 01 R-01
W14 W16	7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
W17	7030003860	S.JUMPER	ERJ3GE JPW V
W18	7120000380	JUMPER	JPW 01 R-01 [ITA], [USA] [SEA]
W19	7030003860	S.JUMPER	ERJ3GE JPW V
W20	7030003860	S.JUMPER	ERJ3GE JPW V
W21	7030003860	S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
W22 W23	7030003660	S.JUMPER S.JUMPER	ERJ3GE JPW V
W24	7030003860	S.JUMPER	ERJ3GE JPW V
W25	7030003860	S.JUMPER	ERJ3GE JPW V
W26	7030003860	S.JUMPER	ERJ3GE JPW V
W27	7410000760	S.JUMPER	EXB-V4V JPWV
W28 W29	7030003660	S.JUMPER S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
W29	7030003880	S.JUMPER	ERJ3GE JPW V
W32	7030003860	S.JUMPER	ERJ3GE JPW V
W33	7030003860	S.JUMPER	ERJ3GE JPW V
W34	7030003860	S.JUMPER	ERJ3GE JPW V
W35 W36	7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V MCR10EZHJ JPW (000)
W36 W37	703000010	S.JUMPER	ERJ3GE JPW V
W36	7030003860	S.JUMPER	ERJ3GE JPW V
W39	7030003660	S.JUMPER	ERJ3GE JPW V
W40	7030003660	S.JUMPER	ERJ3GE JPW V
W41 W42	7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
W42 W43	7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V

REF.	OBBED		
NO.	ORDER NO.		DESCRIPTION
W44	7030003860	S.JUMPER	ERJ3GE JPW V
W45	7030003660	S.JUMPER	ERJ3GE JPW V
W46	7030003860	S.JUMPER	ERJ3GE JPW V
W47	7030003860	S.JUMPER	ERJ3GE JPW V
W48	7030003860	S.JUMPER	ERJ3GE JPW V
W49	7030003970	S.JUMPER	MCR18EZHJ JPW (000)
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REF. ORDER DESCRIPTION NO. NO. SIC 11PD7584AG-555 IC1 1140005670 μPD4026BG-T1 IC2 1130002370 S.IC IC3 1110001500 S-6054ALR-LN-T1 S.TRANSISTOR 2SC2712-BL (TE85R) Q1 1530001940 02 1590000660 S.TRANSISTOR **DTC114EU T107 O**3 1590001330 S.TRANSISTOR DTA114EU T107 1510000770 S.TRANSISTOR 2SA1586-GR (TE65R) **Q4** S.TRANSISTOR 2SA1566-GR (TE85R) Q5 1510000770 S.TRANSISTOR 2SA1566-GR (TE65R) 08 1510000770 07 1510000770 S.TRANSISTOR 2SA1588-GR (TE85R) S.TRANSISTOR 2SC2712-BL (TE65R) Q8 1530001940 1590000960 S.TRANSISTOR DTB123EK T147 09 MA6056-M(TX) D1 1790000950 S.ZENER DЗ 1750000390 S.DIODE 1SS353 TE-17 D4 1750000390 S.DIODE 1SS353 TE-17 S.DIODE 1SS353 TE-17 **D5** 1750000390 SIDIODE 1SS353 TF-17 1750000390 D6 D7 1750000390 S.DIODE 1SS353 TE-17 **D8** 1750000390 S.DIODE 1SS353 TE-17 1SS353 TE-17 D9 1750000390 S,DIODE S.DIODE 1SS353 TE-17 D10 1750000390 S.DIODE 1SS353 TE-17 1750000390 D11 D12 1750000390 S.DIODE 1SS353 TE-17 D13 1750000390 S.DIODE 1SS353 TE-17 1SS353 TE-17 D14 1750000390 S.DIODE S.DIODE 1SS353 TE-17 D15 1750000390 S.ZENER MA6091-M(TX) 1730002280 D18 MA8091-M(TX) **D17** 1730002260 S.ZENER 1730002280 S.ZENER MA6091-M(TX) D16 1750000390 S.DIODE 1SS353 TE-17 D19 S.CERAMIC X1 6060000530 CSB600J200T 8200001520 S.COIL MLF2012D R62K-T L1 L2 8200004920 S.COIL MLF1808A 2R2K-T 6200004920 MLF1608A 2R2K-T S.COIL L3 L4 6200004920 S.COIL MI F1608A 2R2K-T L5 6200004920 S.COIL MLF1808A 2R2K-T 8200001520 S.COIL MLF2012D R62K-T L8 7030000390 S.RESISTOR MCR10EZHJ 1.2 kΩ (122) R2 MCR10EZHJ 1.2 kΩ (122) 7030000390 S.RESISTOR R3 MCR10EZHJ 470 Ω (471) R4 7030000340 S.RESISTOR S.RESISTOR R5 7030003400 ERJ3GEYJ 471 V (470 Ω) 7030003820 S.RESISTOR ERJ3GEYJ 333 V (33 kQ) R6 ERJ3GEYJ 333 V (33 kΩ) R7 7030003620 S.RESISTOR 7030003800 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R6 ERJ3GEYJ 103 V (10 kΩ) 7030003580 S.RESISTOR Rg ERJ3GEYJ 471 V (470 Ω) R10 7030003400 S.RESISTOR 7030003420 S.RESISTOR ERJ3GEYJ 661 V (660 Ω) **R11** 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R12 R13 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 102 V (1 kΩ) 7030003440 S.RESISTOR R14 S.RESISTOR ERJ3GEYJ 621 V (620 Ω) R15 7030003430 R16 7030003580 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R16 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 474 V (470 kΩ) R19 7030003760 S.RESISTOR 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R20 ERJ3GEYJ 474 V (470 kΩ) 7030003780 S.RESISTOR R21 **R22** 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R23 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) **R24** 7030003860 R25 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)-R26 ERJ3GEYJ 105 V (1 MΩ) **R27** 7030003800 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) **R29** 7030003320 S.RESISTOR R30 7030003530 S.RESISTOR ERJ3GEYJ 582 V (5.6 kΩ)

MAIN UNIT

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REF. NO.	ORDER NO.	C	DESCRIPTION
R31 R32	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R33	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R34	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R35	7030000390	S.RESISTOR	MCR10EZHJ 1.2 kΩ (122)
R38	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R37	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R38	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R39	7030003460	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R40	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
C1 C2	4030006650 4510008220	S.CERAMIC	C1808 JB 1H 471K-T-A ECEV1CA101UP
C3	4030007130	S.CERAMIC	C1806 CH 1H 101J-T-A
C4	4030007130	S.CERAMIC	C1808 CH 1H 101J-T-A
C5	4030007050	S.CERAMIC	C1808 CH 1H 220J-T-A
C9	4030007050	S.CERAMIC	C1808 CH 1H 220J-T-A
C10	4030007050	S.CERAMIC	C1808 CH 1H 220J-T-A
C11	4030007050	S.CERAMIC	C1806 CH 1H 220J-T-A
C12	4030008880	S.CERAMIC	C1806 JB 1H 102K-T-A
C13	4030008860	S.CERAMIC	C1806 JB 1H 102K-T-A
C14	4030008920	S.CERAMIC	C1606 JB 1C 473K-T-A
C15	4030006880	S.CERAMIC	C1806 JB 1H 102K-T-A
C18	4030006680	S.CERAMIC	C1606 JB 1H 102K-T-A
C17	4030006660	S.CERAMIC	C1806 JB 1H 102K-T-A
C18	4030008680	S.CERAMIC	C1606 JB 1H 102K-T-A
C19	4030008660	S.CERAMIC	C1606 JB 1H 102K-T-A
C21	4030006680	S.CERAMIC	C1806 JB 1H 102K-T-A
C22	4030008880	S.CERAMIC	C1606 JB 1H 102K-T-A
C23 C24	4030006880	S.CERAMIC S.CERAMIC	C1806 JB 1H 102K-T-A C1808 JB 1H 102K-T-A
C25	4030008880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C26	4030008880	S.CERAMIC	C1606 JB 1H 102K-T-A
C27	4030008880	S.CERAMIC	C1806 JB 1H 102K-T-A
C29	4510004830		ECEV1CA100SR
C30	4030010070	S.CERAMIC	C1808 X7S 1C 104K-T-A
C31	4510004630	S.ELECTROLITIC	ECEVICA100SR
DS1	5010000120	S,LED	LN1371G-(TR)
DS2	5010000120	S.LED	LN1371G-(TR)
DS3	5010000120	S.LED	LN1371G-(TR)
DS4	5010000120	S.LED	LN1371G-(TR)
DS5	5010000120	S.LED	LN1371G-(TR)
DS6	5010000120	S.LED	LN1371G-(TR)
DS7	5010000120	S.LED	LN1371G-(TR)
DS6	5010000120	S.LED	LN1371G-(TR)
DS10	5010000150	S.LED	LT1EP53A
DS11	5010000150	S.LED	LT1EP53A
S1	2230000900	s.switch	JPM1990-2013R
J1	6510018460	CONNECTOR	52018-6645
MC1	7700002040	MICROPHONE	KUB2823-011500
EPi	0910046553	PCB	B 4626C

SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

7-1 CABINET PARTS

[CHASSIS PARTS]

REF. NO.	ORDER NO.	DESCRIPTION	QTY
SP1	2510000820	Speaker VS-57-0814	1
J 1	6510004880	Antenna connector MR-DSE -01	1
MF1	2710000410	Fan motor 0410-12H	1
MP1	8010016500	1729 CHASSIS	1
MP2	8930039460	1729 A-SP plate	1
мрз	8930038520	1729 OPC plate	1
MP4	8930038510	1729 Release button	1
MP5	8930038500	1729 Button	1
MP6	8810008660	Screws PH B0 M3 X 8 NI-ZU (BT)	2
MP7	8810008660	Screws PH B0 M3 X 8 NI-ZU (BT)	4
MP8	8810008660	Screws PH B0 M3 X 8 NI-ZU (BT)	7
MP9	8810009140	Screw PH M2.6 X 6 ZK	1
MP10	8110005750	1729 Fan cover	1
MP11	8810009110	Screws PH No.0 M2.6 X 16 ZK	4
MP12	8810009140	Screws PH M2.6 X 6 ZK	2
MP13	8110005760	1729 COVER	1
MP17	8930036751	Spring (Y)-1	1
MP18	8930039610	Thermally sheet(C)	1
MP19	8930039610	Thermally sheet(C)	1
MP20	8930039610	Thermally sheet(C)	1
MP21	8930008620	Himelon sheet L	1
MP22	8930008620	Himelon sheet L	2
MP23	8930018810	Himelon sheet AA	3
MP24	8930040330	1729 Spring	1
WS1	8600034860	1729 P01H	1

[CONTROL UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
DS 4	5030001320	LCD HLC8763-012300	1
EP 2	8930038350	LCD contact SRCN-1729-ZNN-510	1
MP1	8210013291	1729 Reflector	1
MP2	8930039100	1729 LCD filter	1
MP4	8930038460	1729 LCD holder	1
MP5	8210013740	1729 Front panel assembly	1
MP11	8210013280	1729 Rear panel	1
MP12	8810009220	Screws PH B0 M2 X 8 ZK(BT)	2
MP13	8610009840	Knob N234	2
MP15	8610010140	Knob N245	2
MP18	8610010230	Knob N250	2
	L.,		

[HM-98 REMOTE CONTROL MICROPHONE]

REF. NO.	ORDER NO.	DESCRIPTION	QTY
MP1	8210013640	1731 Front cover assembly	1
MP2	8210013330	1731 Rear panel	1
MP3	8930038530	1731 Key board	1
MP4	8930039900	1731 PTT button assembly	1
MP8	8810008640	Screws FH B0 No.1 2 x 4	3
MP9	8810009370	Screws PH B0 3 X 12 ZK(BT)	2

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J 8	6510019321	1729 Rear connector	1
W 1	8900004880	Cable OPC-465	1
MP1	8930038490	1729 H.V. plate	1
MP2	8510010520	1729 A-VCO case	2
мР3	8930037120	1647 M-holder	2
MP5	8510010010	1647 Filter plate	1
MP7	8510010510	1729 U-U VCO case	1
MP8	8510010500	1729 V-U VCO case	1
MP13	8510010630	1729 U shield plate	1
MP14	8510010680	1729 Grounding plate (EUR, ITA, USA)	1

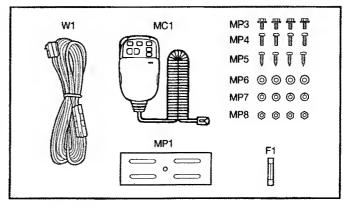
[ACCESSORIES FOR HM-98]

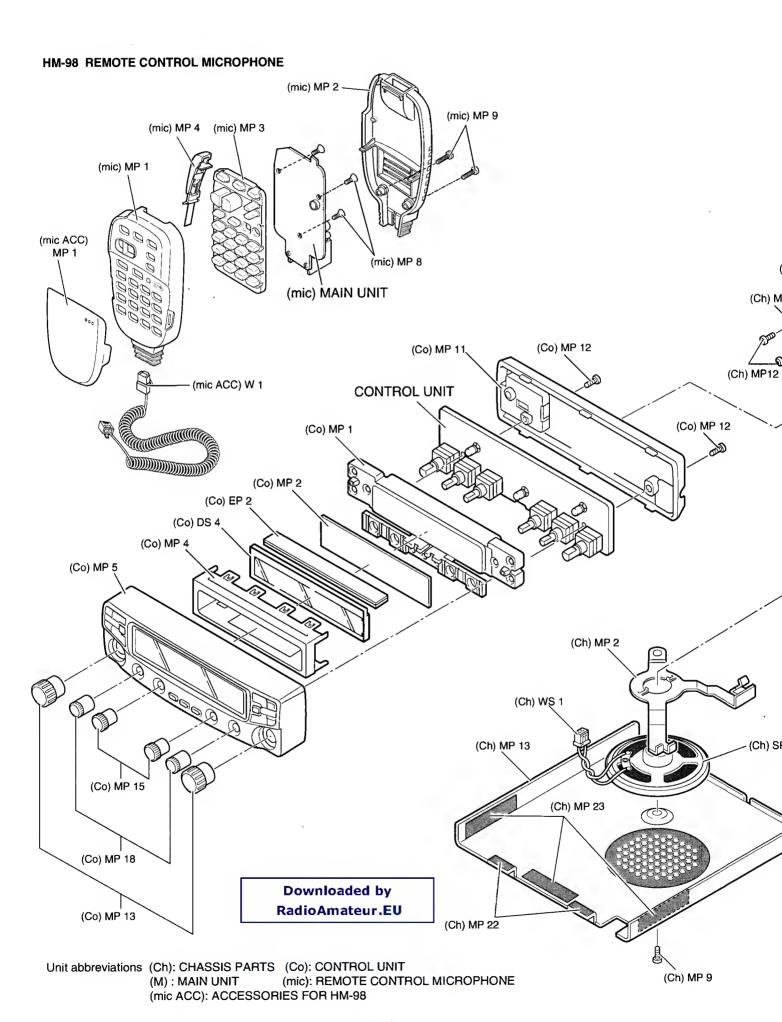
REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8110005770	1731 Cover	1
W 1	8900006240	OPC-614	1

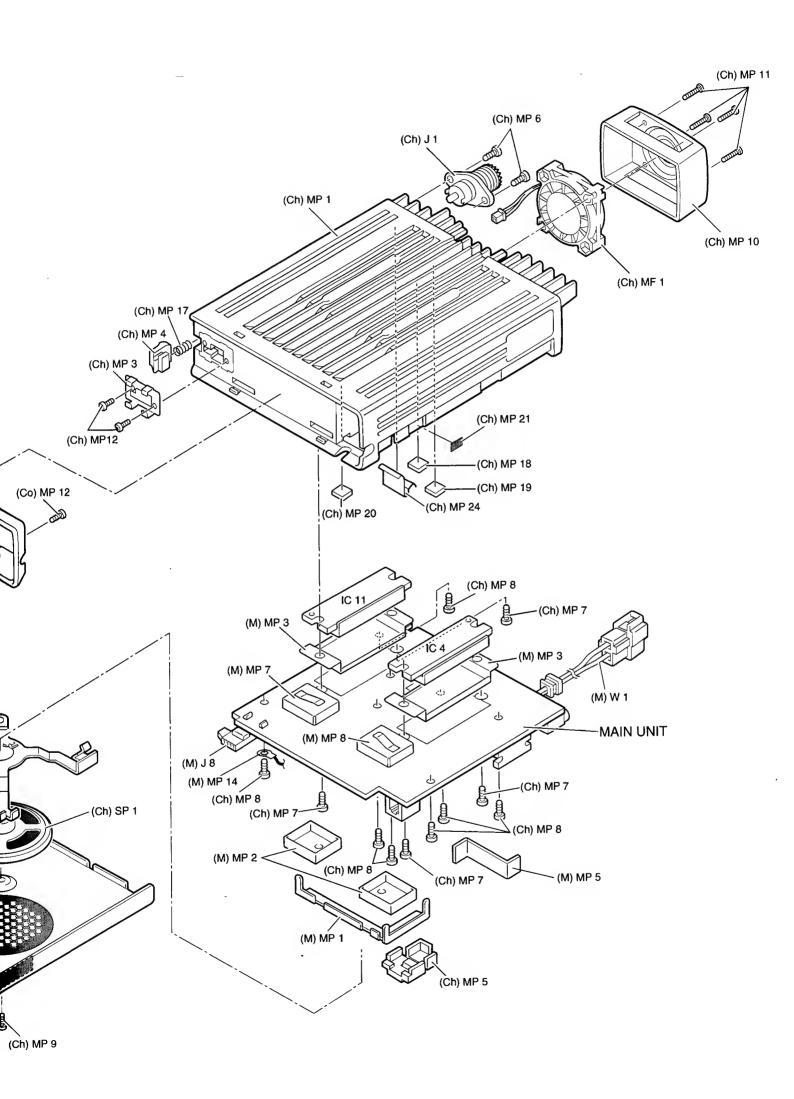
Screw abbreviations: PH: Pan head A0, B0: Self-tapping NI: Nickel ZK: Black

7-2 ACCESSORIES

REF. NO.	ORDER NO.	DESCRIPTION	ату
F 1	5210000080	Fuse FGB 20A	1
W 1	Optional products	Cable OPC-346	1
MC1	Optional products	Microphone HM-98	1
MP1	8010016380	Mobile mounting bracket-	1
MP3	8820000530	Knob bolt M4 X 8 NI	4
MP4	8810000470	Mounting bolt M5 X 12(+-)	4
MP5	8810000950	Screws A0 M5 x 16	4
MP6	8850000150	Flat washer M 5 NI BS	4
MP7	8850000390	Spring washer M 5	4
MP8	8830000120	Nut M 5	4







SECTION 8 SEMI-CONDUCTOR INFORMATIONS

8-1 TRANSISTORS

NAME	SYMBOL	INSIDE VIEW
2SA1162 GR 2SA1362 GR 2SA1576 S 2SA1586 Y	SG AEG FS SY	C D B E
2SA1870 TLE 2SB1182 TL Q	A1870 B1182	B C E
2SB798 DK	DK	C C C E B C E
2SC2712 BL 2SC3770-3 2SC3356 R25 2SC3661 TA 2SC4081 R 2SC4116 Y 2SC4117 BL 2SC4213 B 2SC4215 2SC4226 R25 2SC4228 R45 2SC4403 2SC4405 TL	LL JY3 R25 FY BR LY DL AB QY R25 R45 LY3 OY3	COLLE
2SC2954 2SC3357 2SD999 CK	QK RK CK	C B C E
2SD1851 TA	XY	C B E
2SK209 BL 2SK508 K52 2SK880 GR/Y 2SK1577-2 2SK1740	XL K52 XG/XY P2 IJ	G S D

NAME	SYMBOL	INSIDE VIEW
2SJ144 GR	VG	G S D
3SK166-2 3SK184 S	K 3R	G2 G1 D S
DTA113ZU DTA114EU DTA143ZU DTA144EU DTB123EK	111 14 113 16 <u>F12</u>	C B E
DTC114EU DTC143XU DTC143 ZU DTC144EU	24 43 123 <u>26</u>	C E
UMD3N	D3	B E C
UMG9N	G9	C1 C2
UMH2N	H2	B B B B

8-2 DIODES

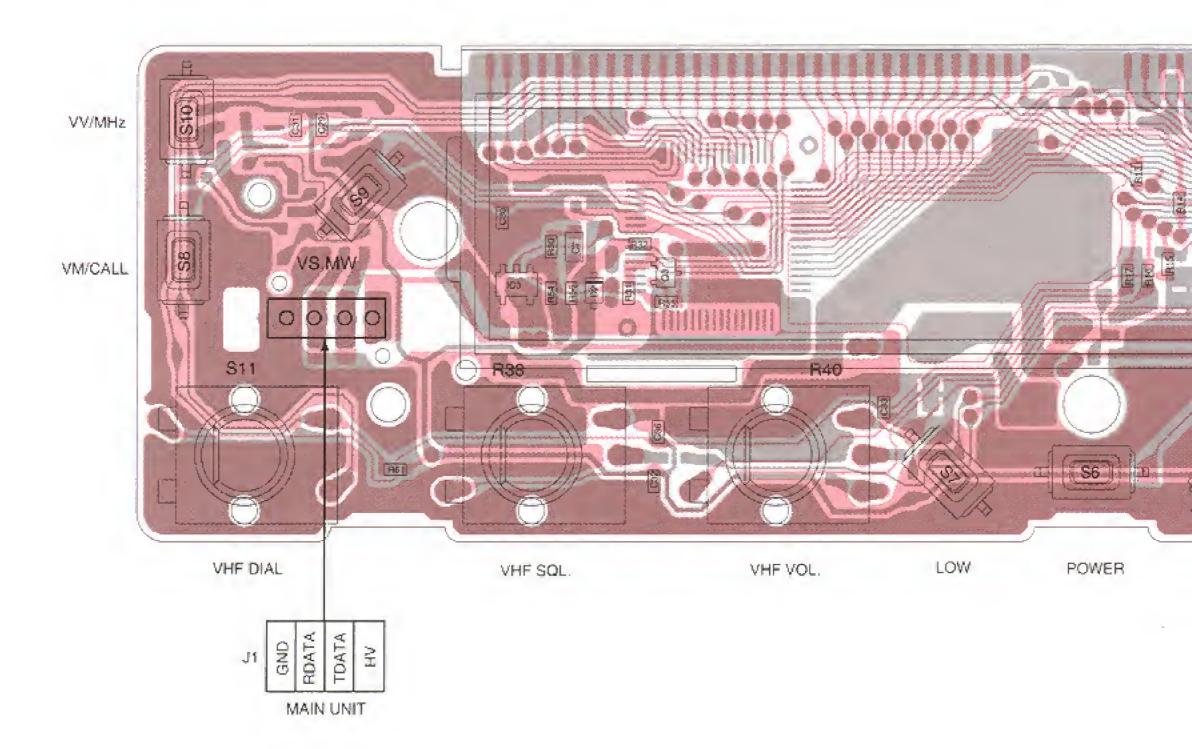
NAME	SYMBOL	INSIDE VIEW
1SV172 DA221 TL MA133 MA742	BE K MP M1U	A K
DA114	AV	K A
DA115	AU	K
DAN202U	N	K A1 A2
MA862	M11	K2 K1
RD20E B2	202	K A

NAME	SYMBOL	INSIDE VIEW
1SV217 1T363A-04 HVU350TRF MA304	T6 Light blue line 4 7R	A □ → II- ■ □K
MA8030H MA8024 MA8043L MA8051M MA8056M MA8062L MA8091-M MA8100M	3^0 2.4 4_3 5-1 5-6 6_2 9-1	A□→L¶□K
1SS353 MA77 MA110 MA729 MI407	C 4B 1A 2B	A □ <mark>→⊢</mark> □K
1SS254	Yellow	A□□□K
M1809	Red dot	A IIII K

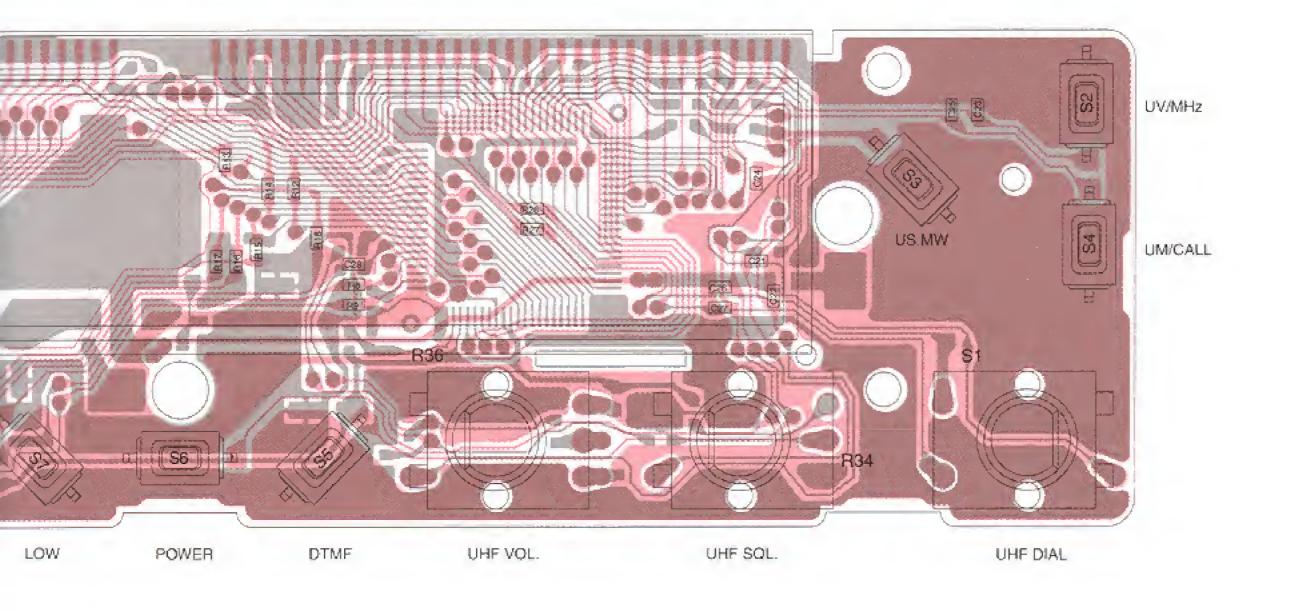
SECTION 9 BOARD LAYOUTS

9-1 CONTROL UNIT

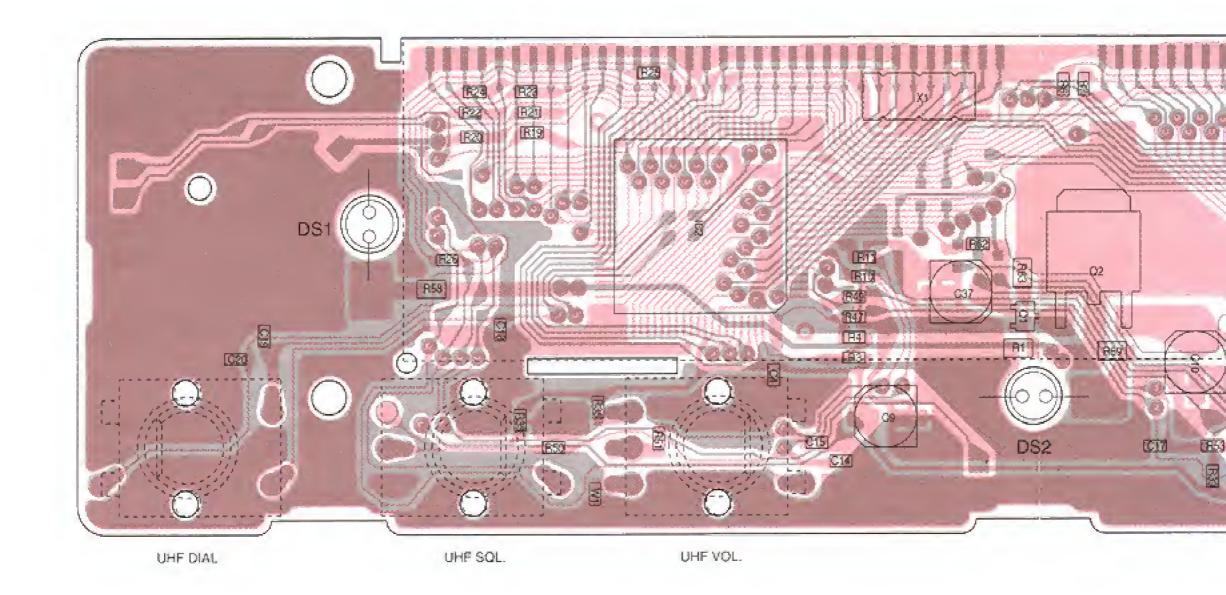
• CONTROL UNIT (TOP VIEW)

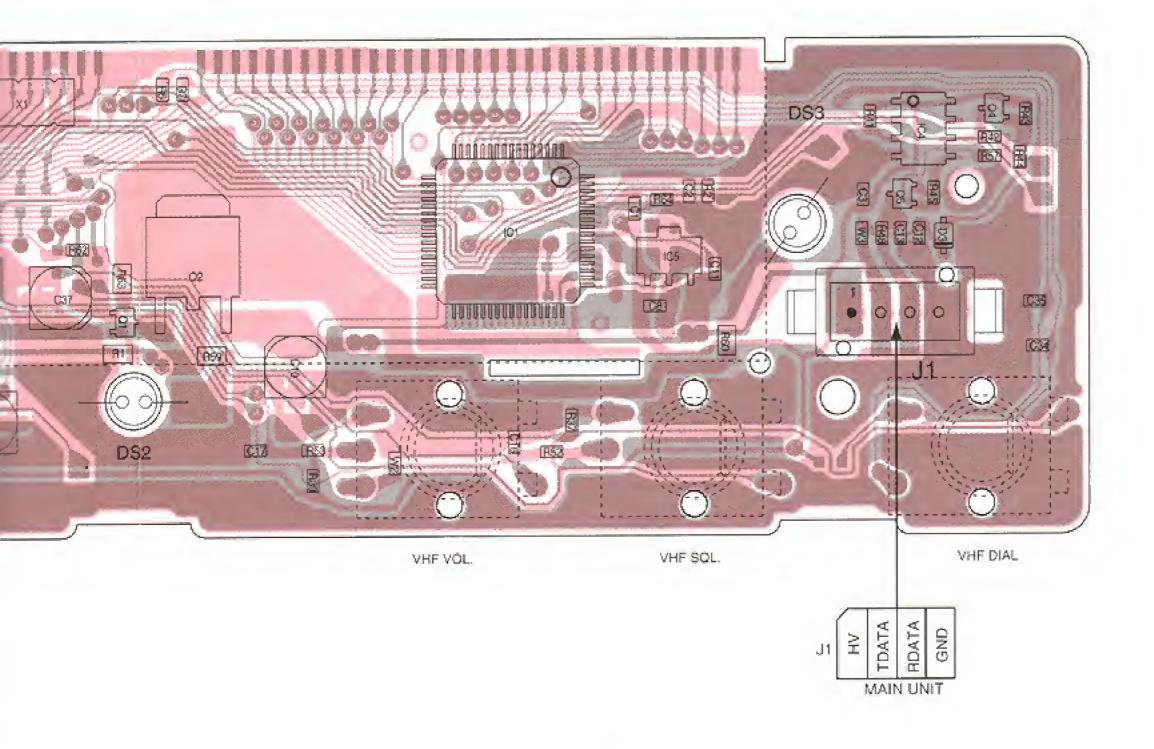


The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

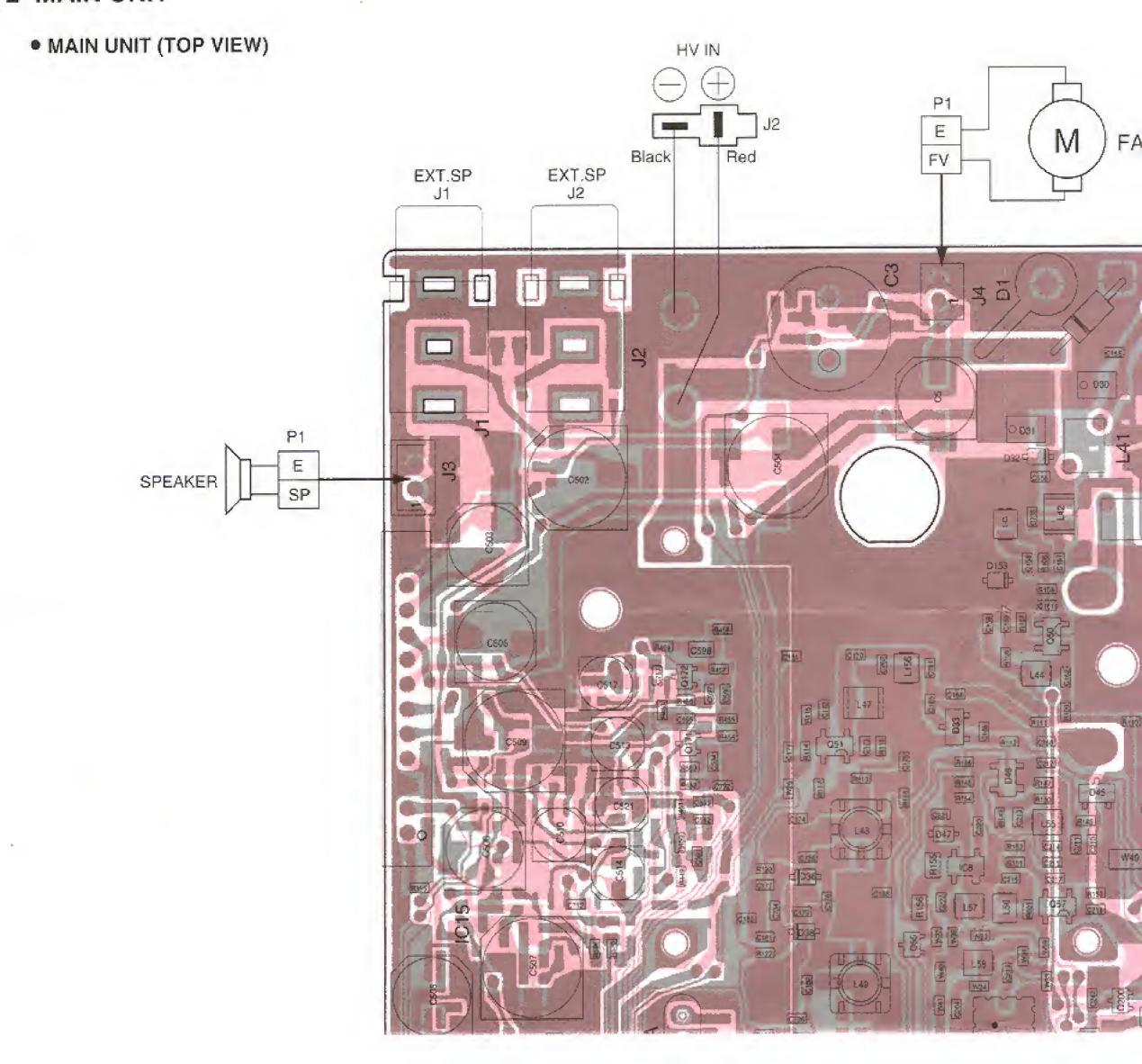


• CONTROL UNIT (BOTTOM VIEW)



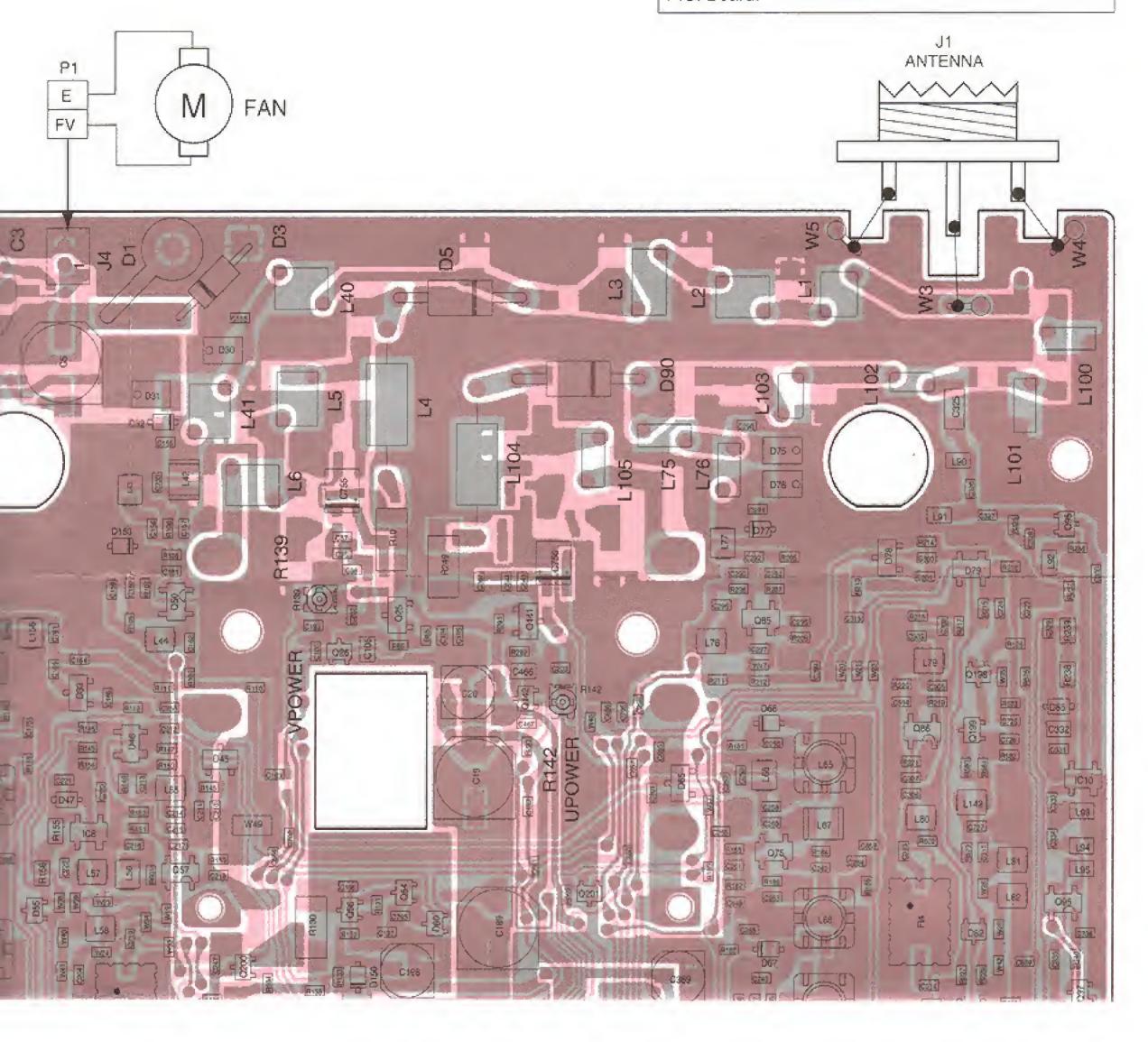


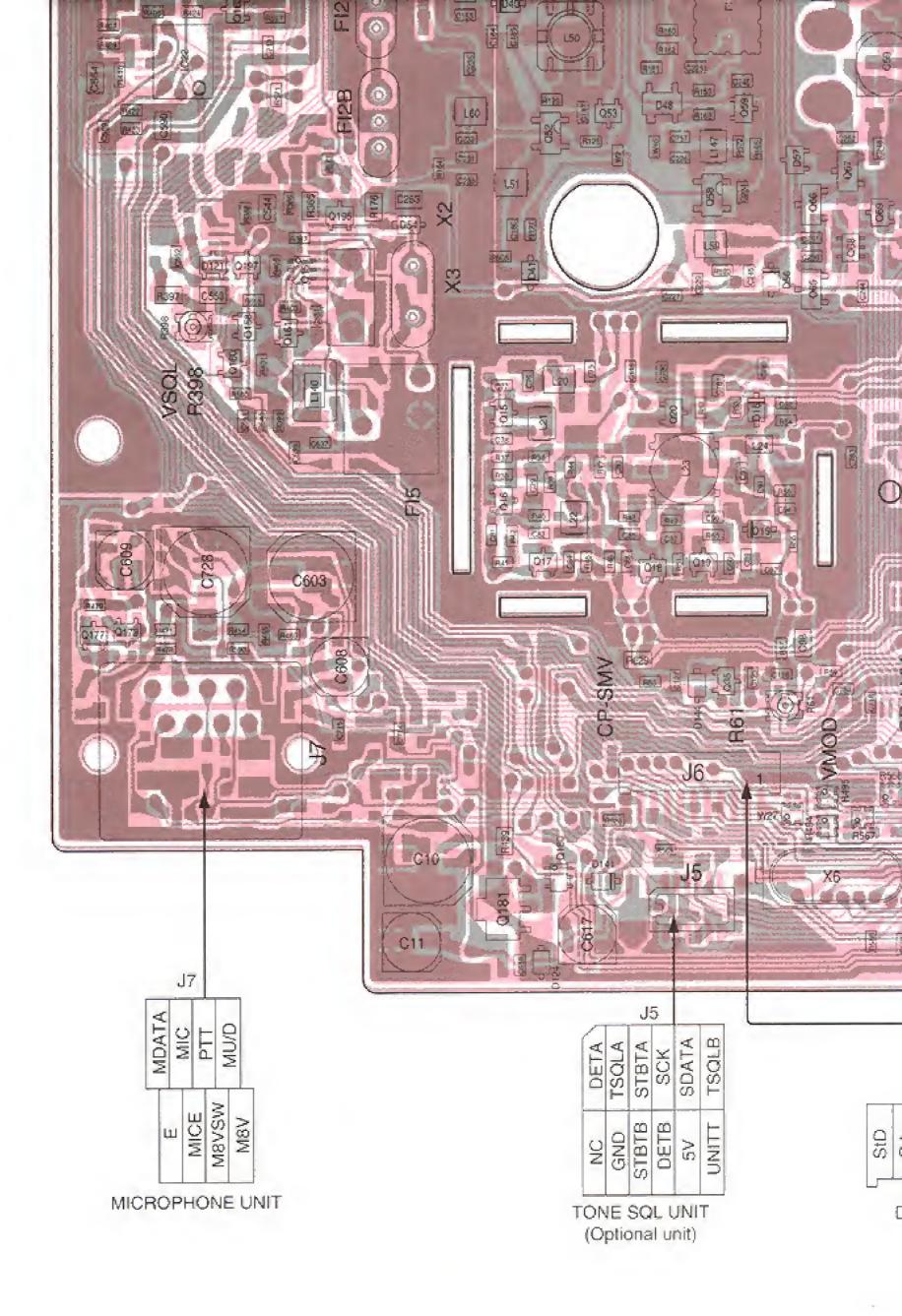
9-2 MAIN UNIT

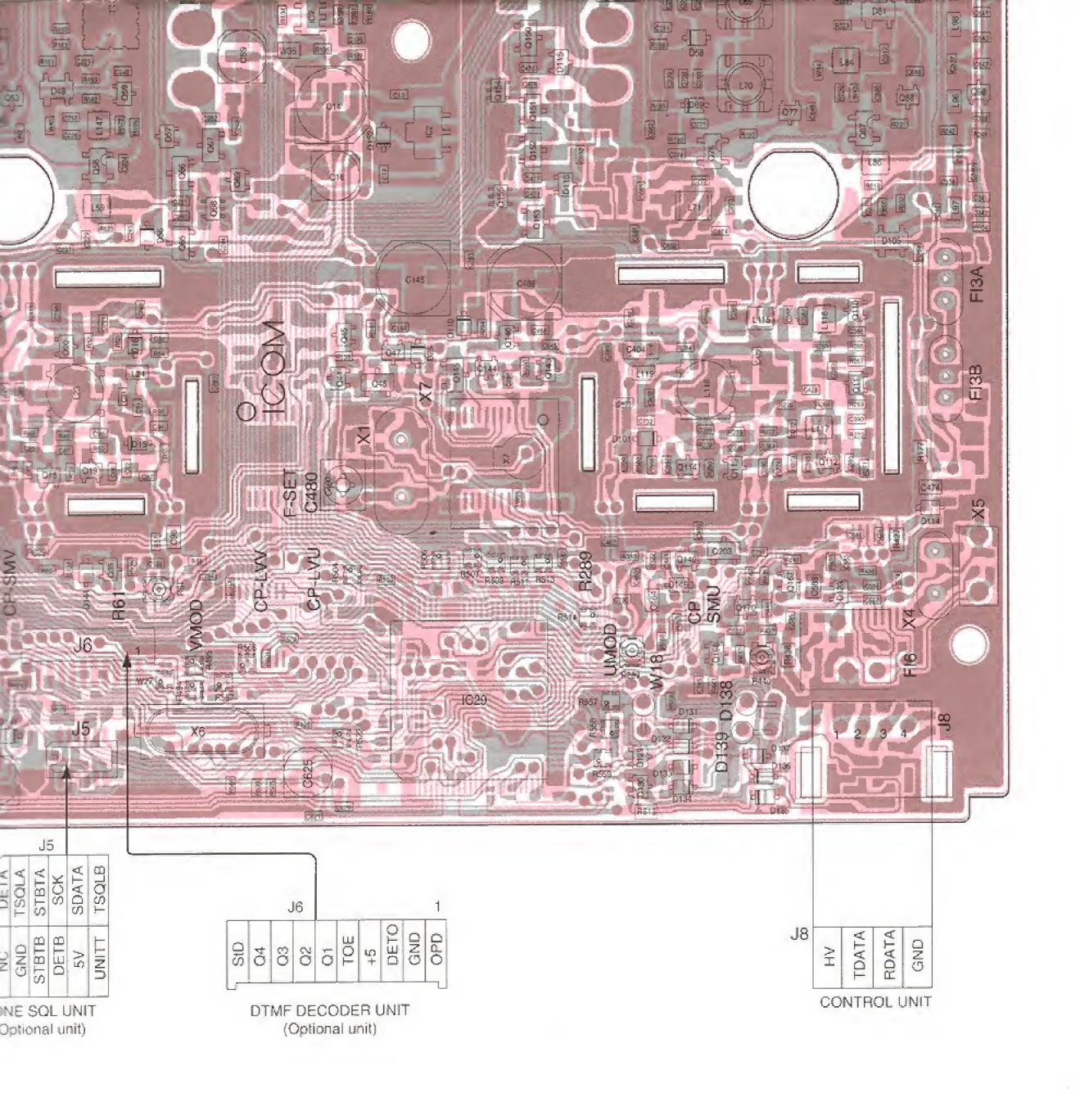


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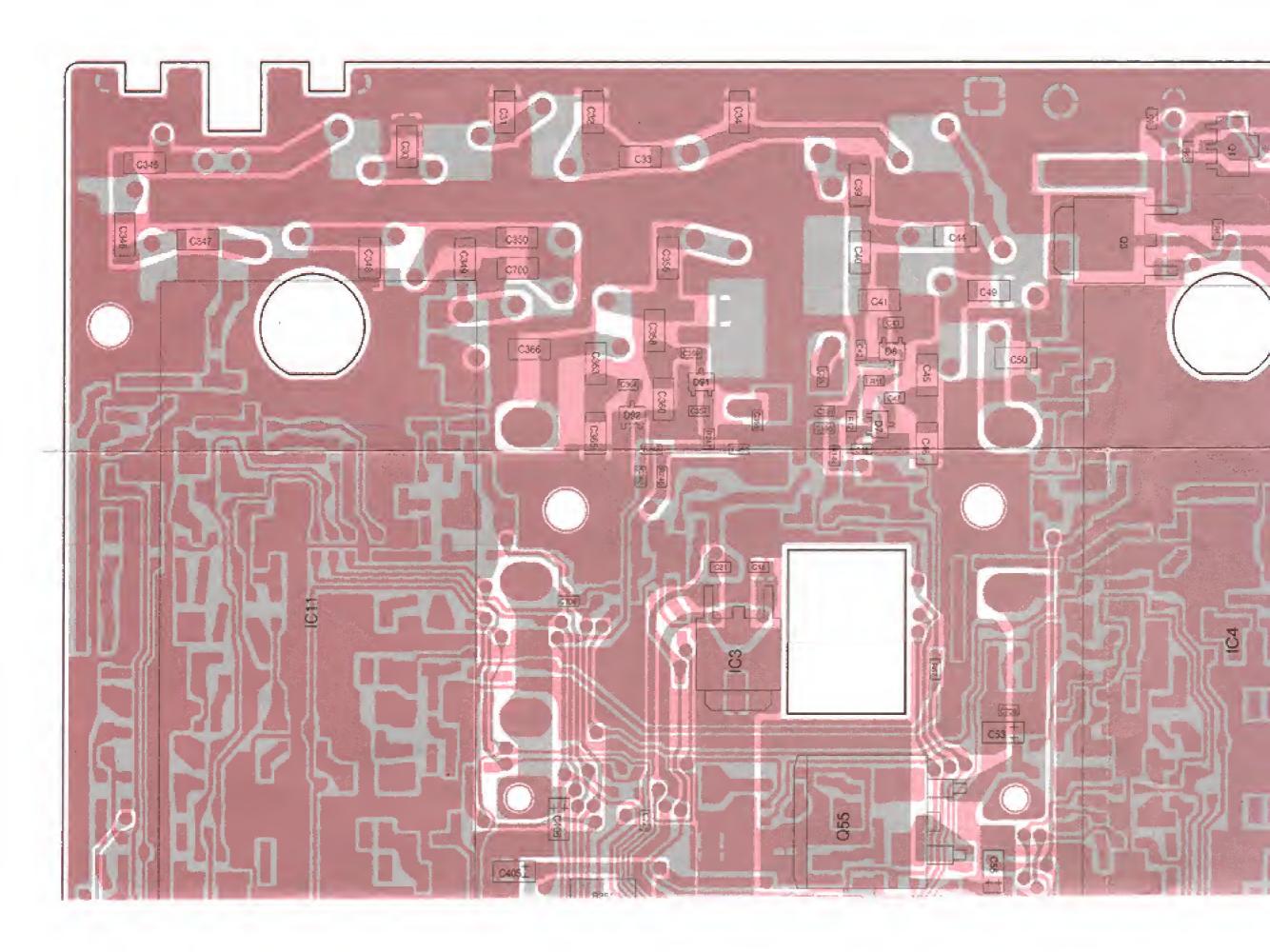
The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

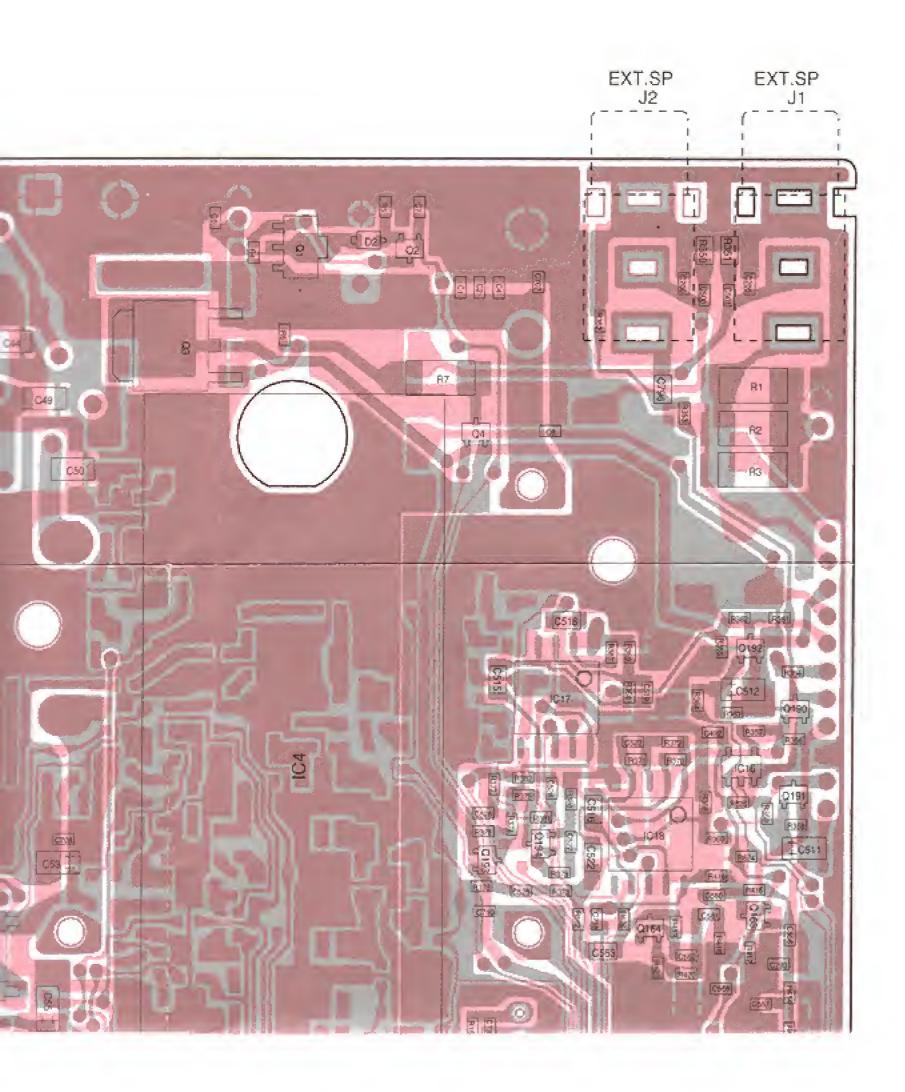


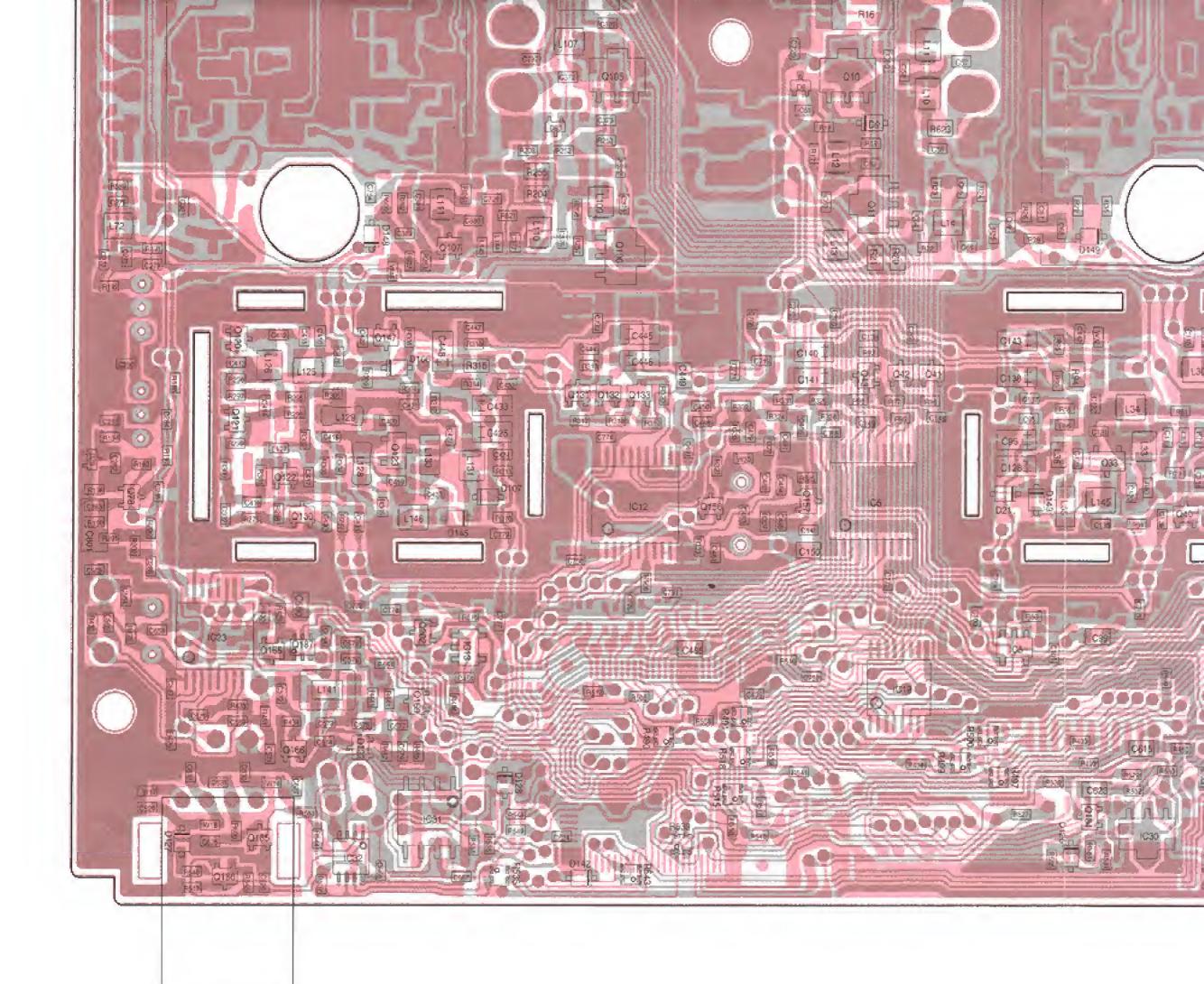




• MAIN UNIT (BOTTOM VIEW)

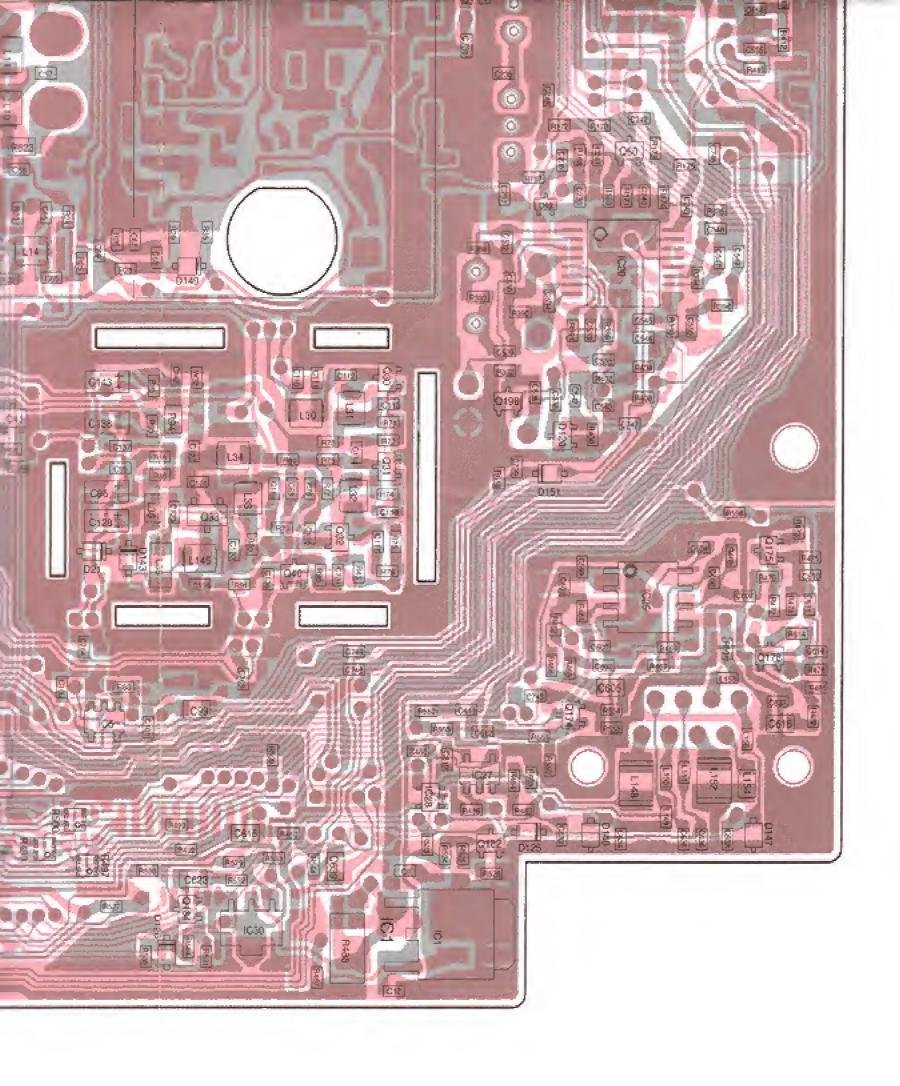






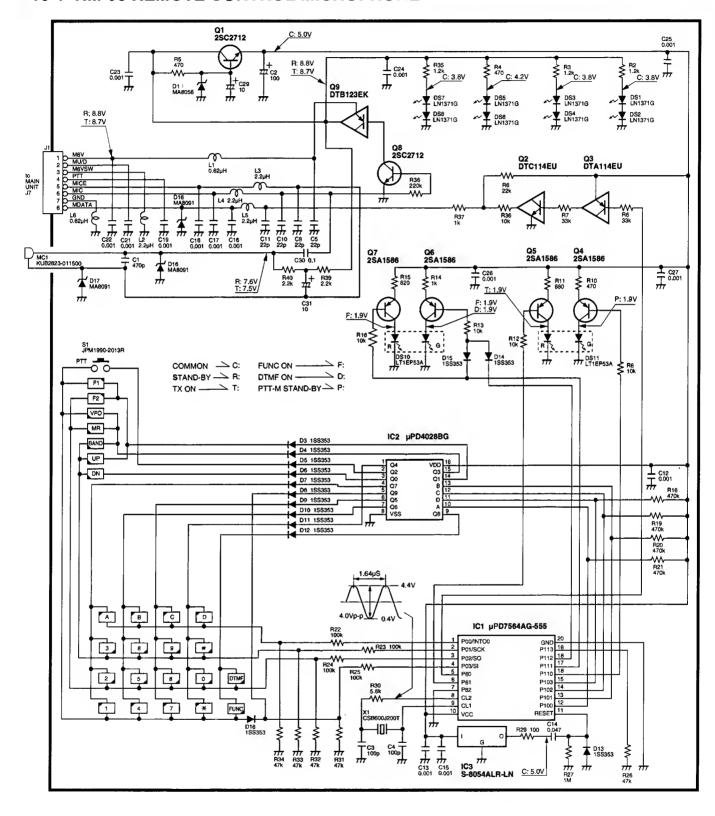
GND RDATA TDATA HV

CONTROL UNIT

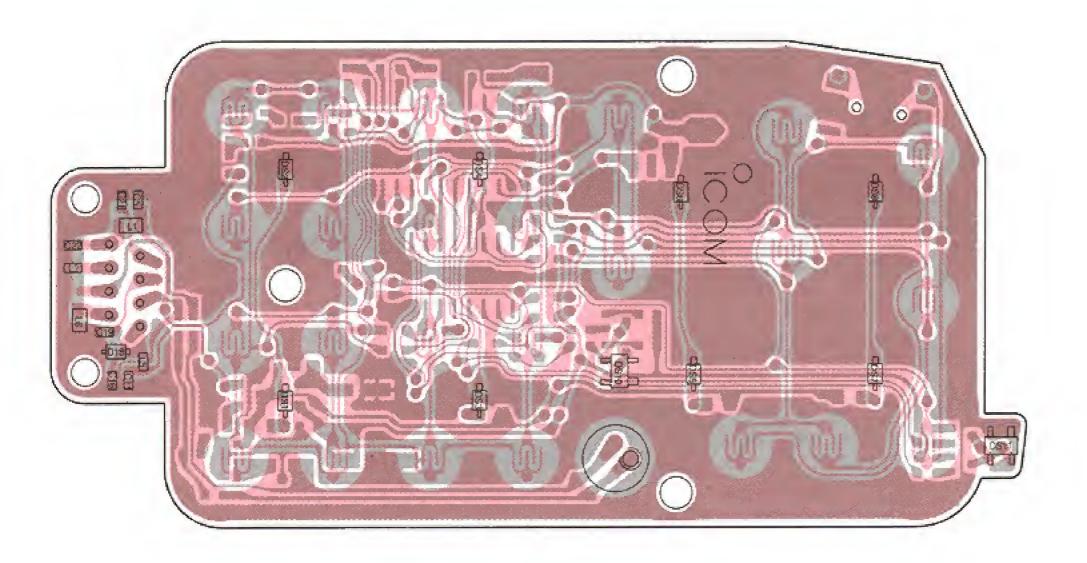


SECTION 10 OPTIONAL UNITS

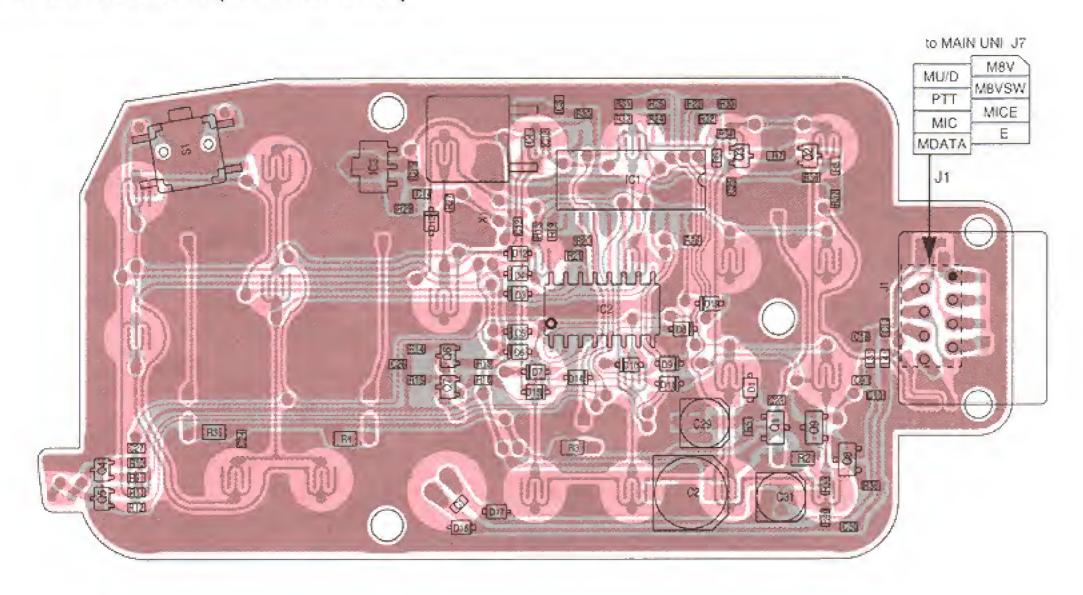
10-1 HM-98 REMOTE CONTROL MICROPHONE



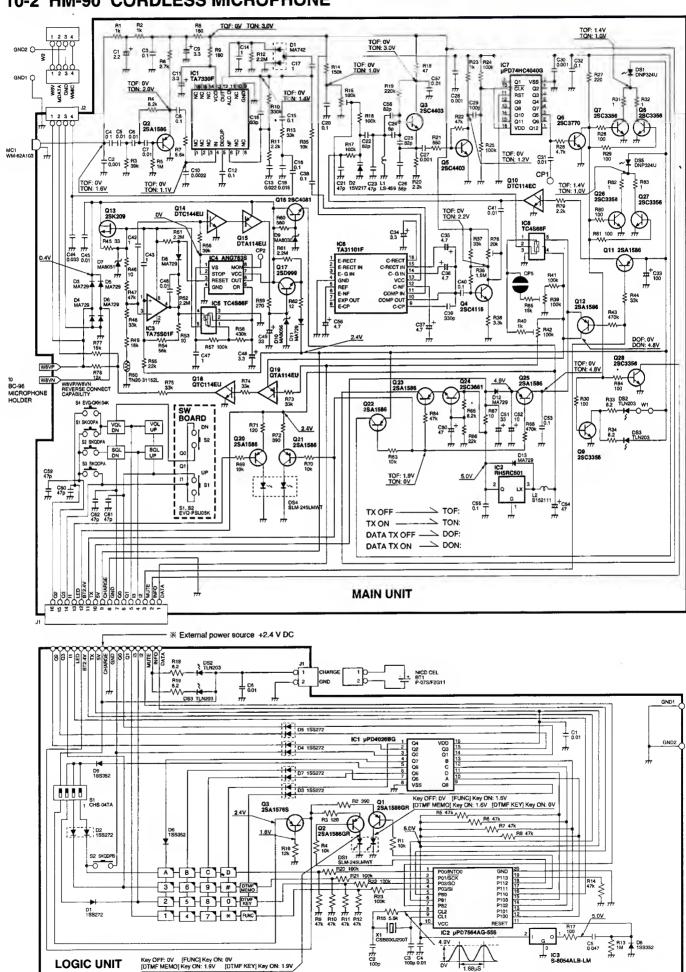
BOARD LAYOUT (TOP VIEW)



• BOARD LAYOUT (BOTTOM VIEW)

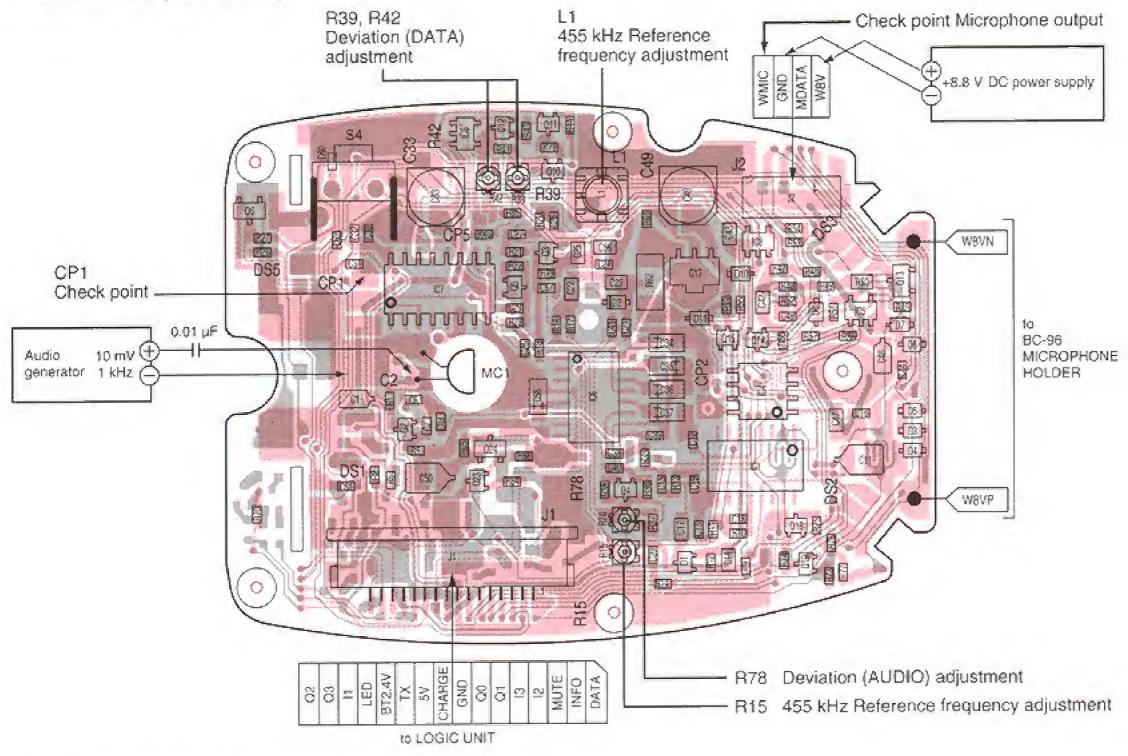


10-2 HM-90 CORDLESS MICROPHONE

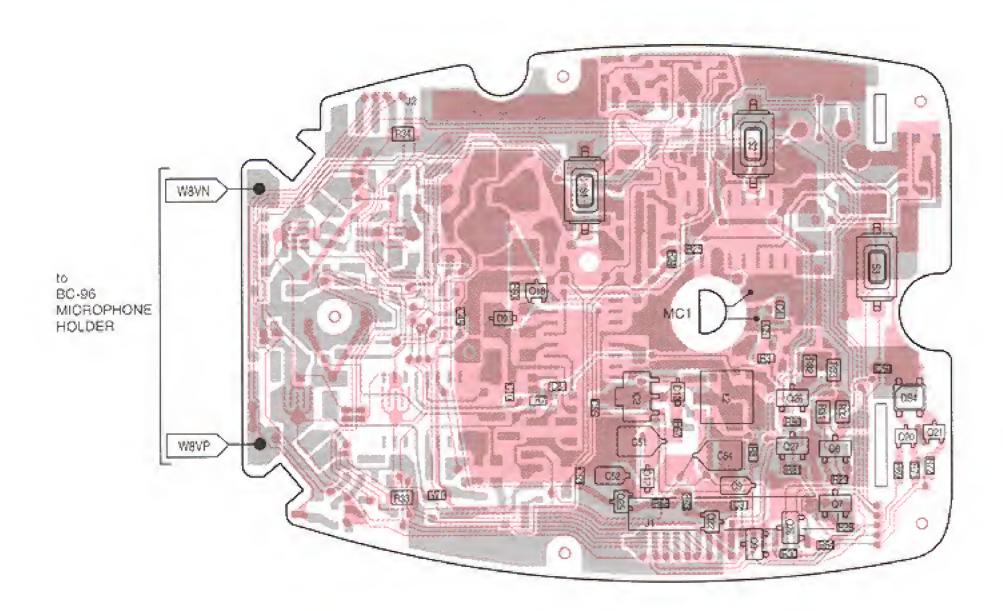


BOARD LAYOUT

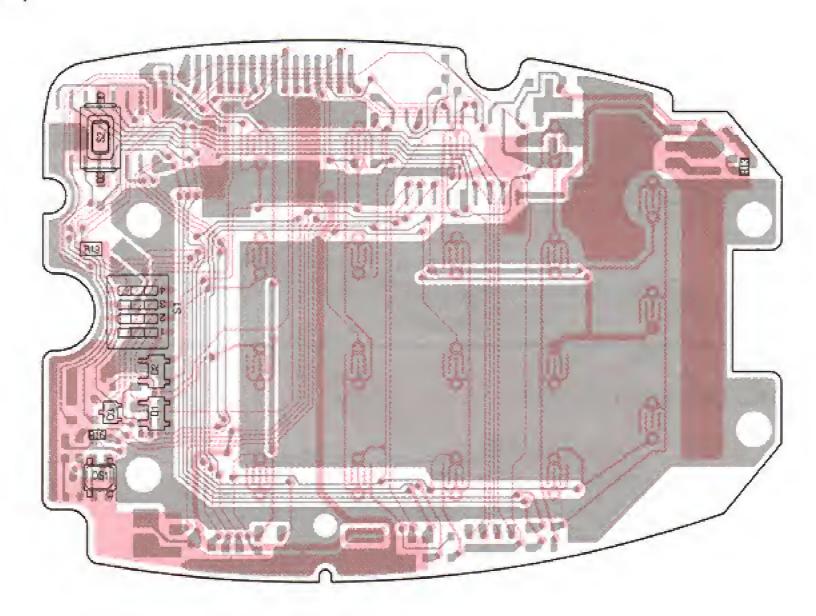
MAIN UNIT (TOP VIEW)

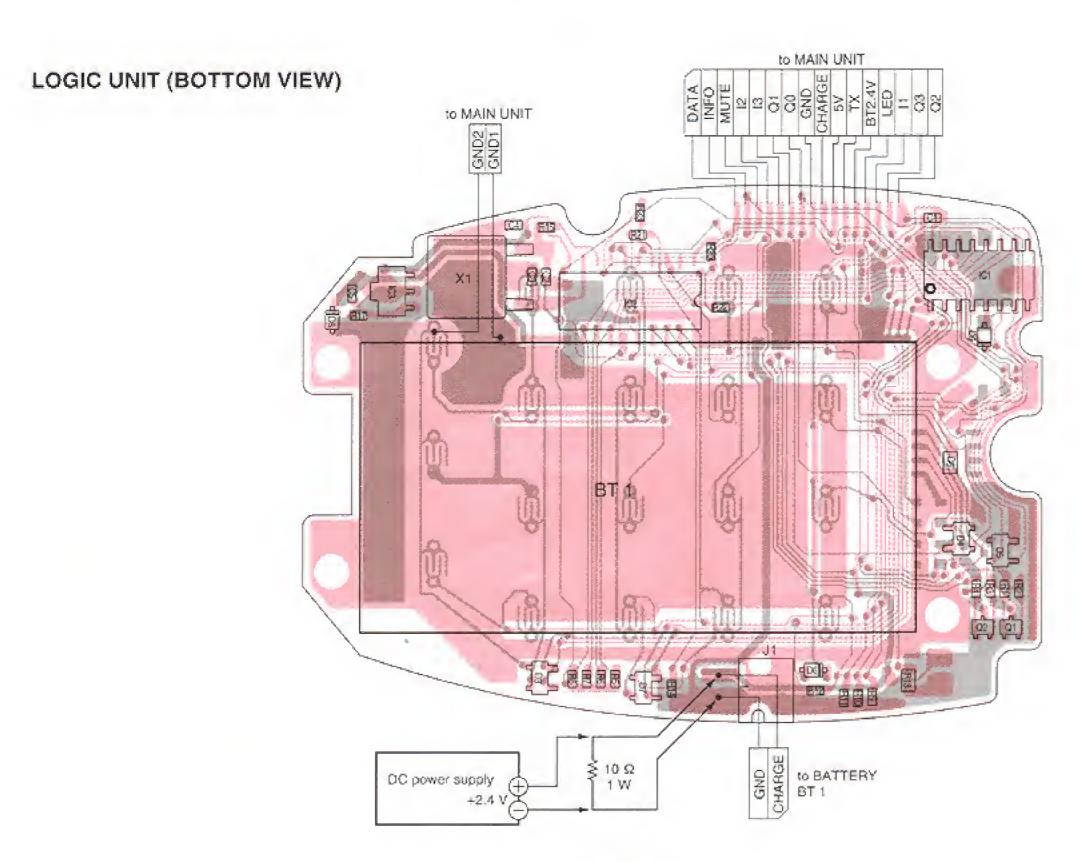


MAIN UNIT (BOTTOM VIEW)

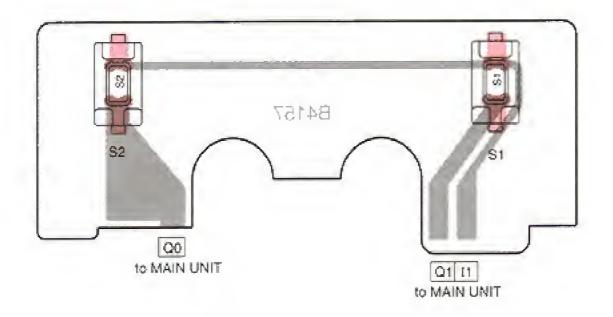


LOGIC UNIT (TOP VIEW)





SWITCH BOARD (TOP VIEW)



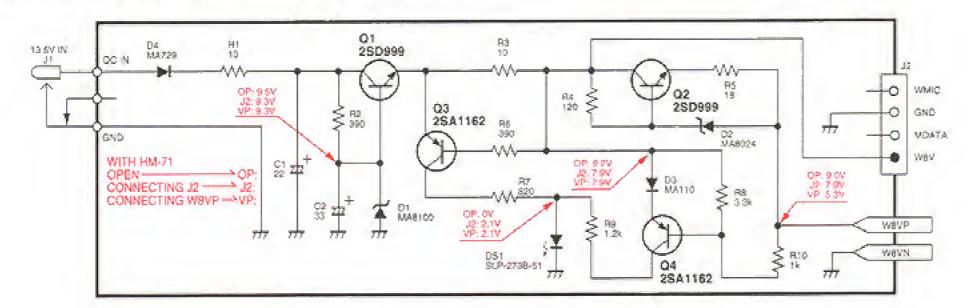
CORDLESS MICROPHONE ADJUSTMENT

PREPARATION

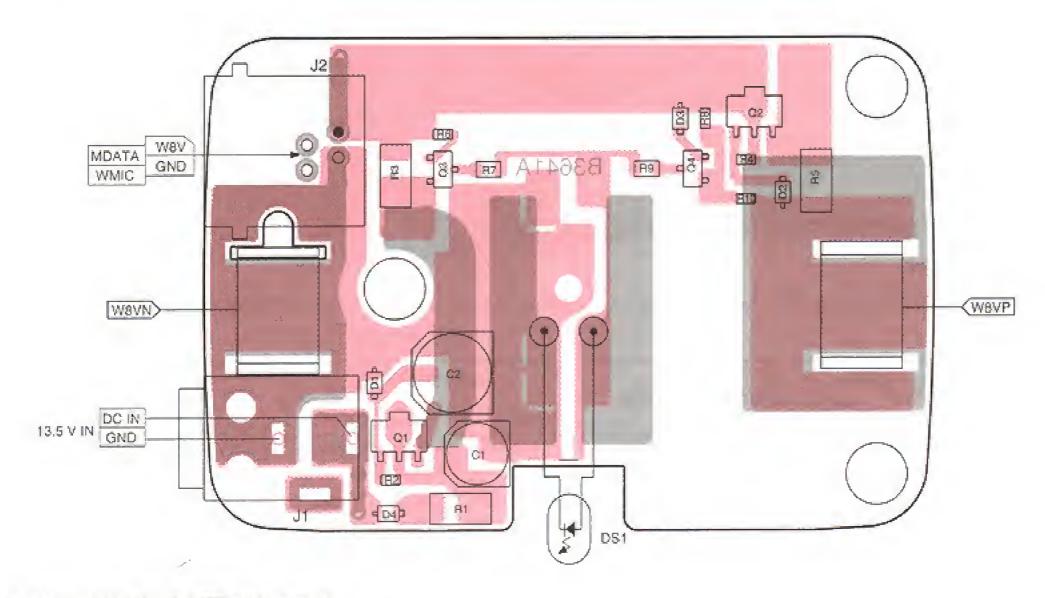
Disconnect the Ni-Cd battery (BT 1), then connect a DC power supply (2.4 V) with a dummy resistor (10 Ω /1 W)) to J1 (LOGIC unit).

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION	10505	UNIT	ADJUST
MICROPHONE OUTPUT	1	 Disconnect a power supply (2.4 V) from J1 (MAIN unit) only. Remove the microphone (MAIN unit, MC1), then connect an audio generator through the coupling capacitor (0.01 µF), and set as : 10 mV/1 kHz Connect a DC power supply (8.8 V) to W8V line (MAIN unit, J2, pin 1). Push the [PTT] switch. 	MAIN	Connect an oscillo- scope to J2 (WMIC).	12 mV ± 3 dB	MAIN	Verify
455 kHz REFERENCE FREQUENCY	1	 Connect a DC power supply (2.4 V) to J1 (LOGIC unit). Re-set R15 to the center position. Push the [PTT] switch. 	MAIN	Connect a frequency counter to CP1.	455.00 kHz	MAIN	L1
DEVIATION (AUDIO)	1	 Connect an audio generator to the point between C2 and C4 (MAIN unit) through the coupling capacitor (0.01 µF) and set as: 10 mV/1 kHz Set a modulation analyzer as: HPF: 50 Hz LPF: 20 kHz Push the [PTT] switch. 	MAIN	Connect a modula- tion analyzer to CP1.	±4.8 kHz	MAIN	R78
DEVIATION (DATA)	1	Push any key on the keypad.	MAIN	Connect a modula- tion analyzer to CP1.	±7.5 kHz	MAIN	R42
	2	Make a soldering bridge at CP 5. Push any key on the keypad.			±5.3 kHz		R39

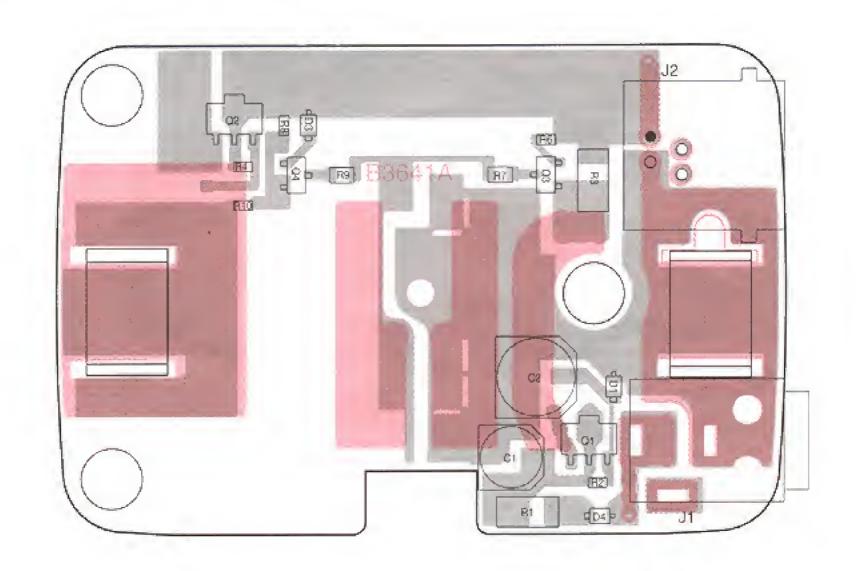
10-3 BC-96 MICROPHONE HOLDER



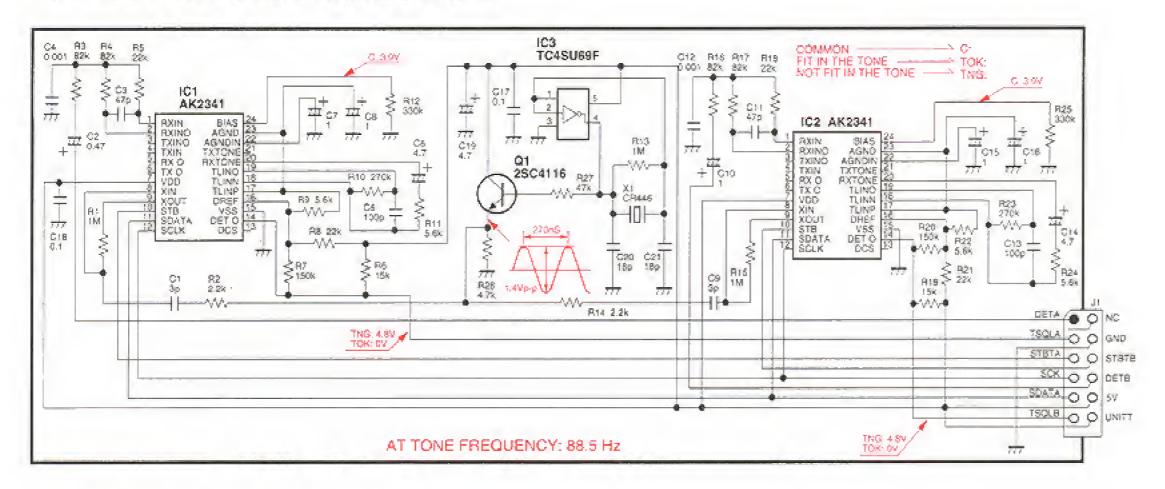
• BOARD LAYOUT (TOP VIEW)



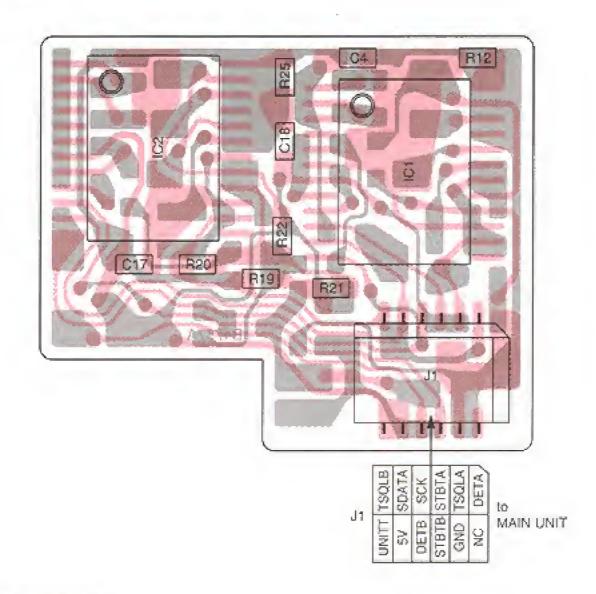
BOARD LAYOUT (BOTTOM VIEW)



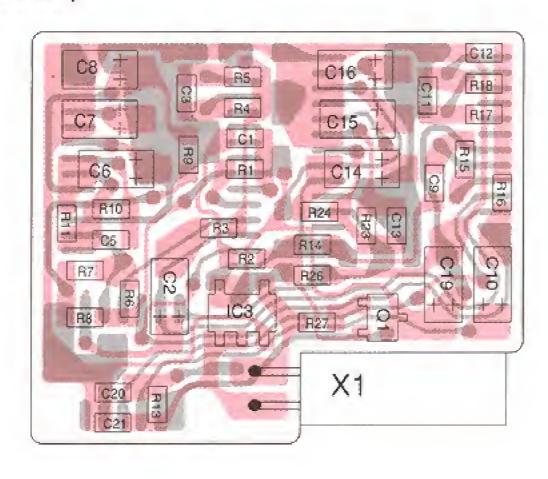
10-4 UT-104 TONE SQUELCH UNIT



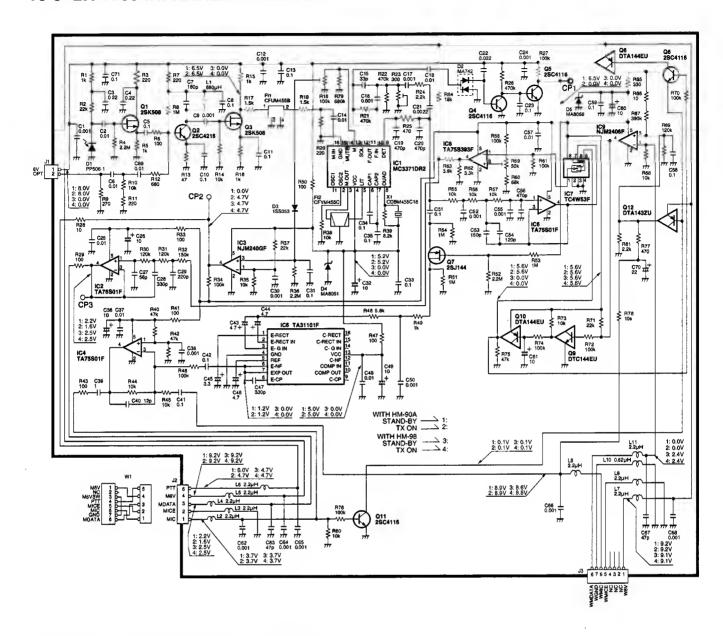
BOARD LAYOUT (TOP VIEW)



BOARD LAYOUT (BOTTOM VIEW)



10-5 EX-1759 INFRARED RECEIVER

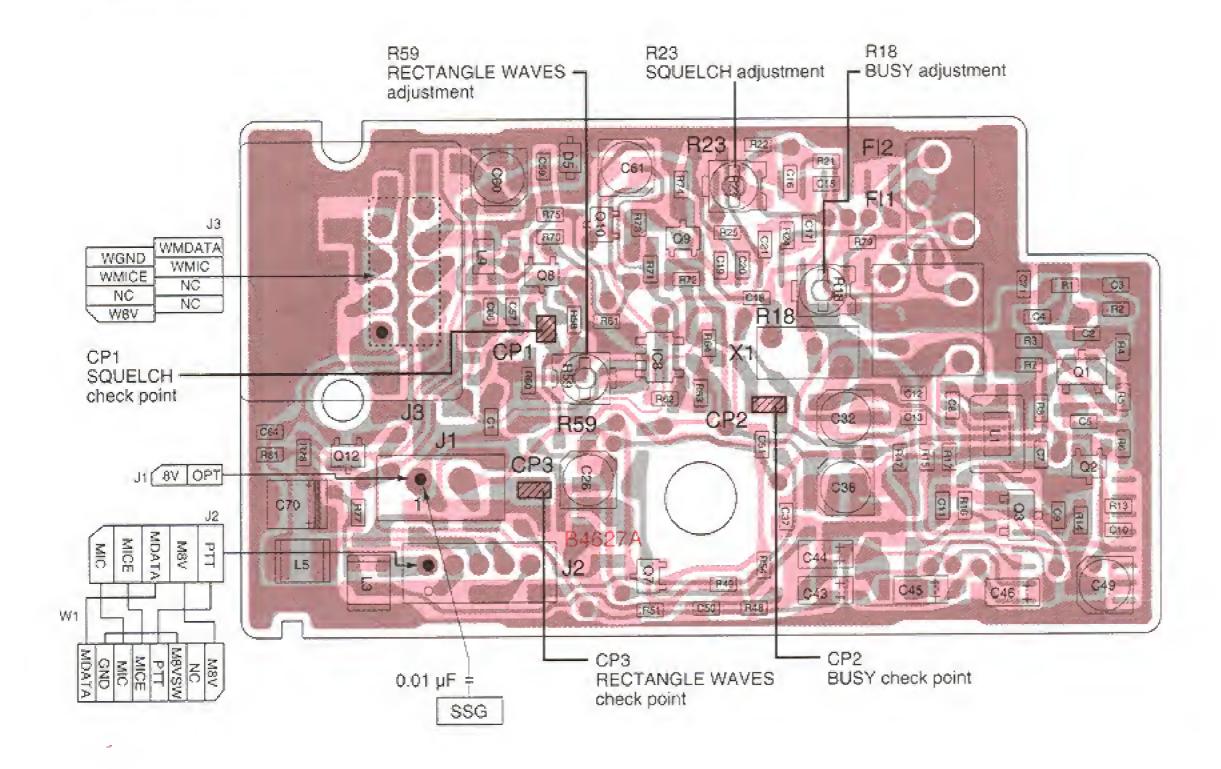


INFRARED RECEIVER ADJUSTMENT

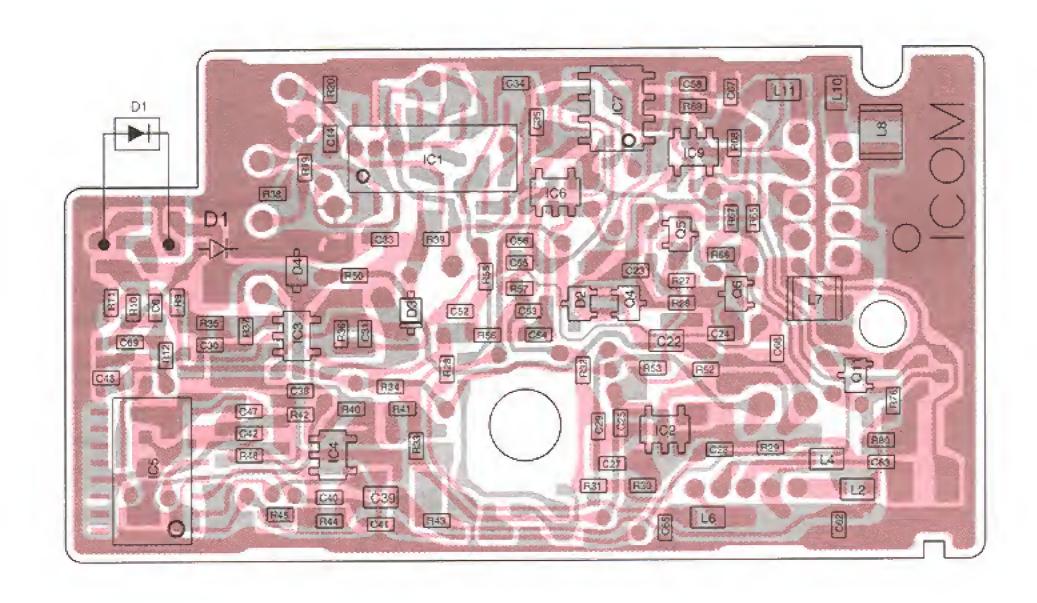
ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION	VALUE	UNIT	ADJUST
SQUELCH	1	Connect an SSG to the J1 via the coupling capacitor (0.01 μF), and set as: Frequency: 455 kHz Level: 3.2 μV* (–97 dBm) Modulation: 1 kHz Deviation: ± 3.5 kHz	MAIN	Connect an oscilloscope to CP1.	At the point where the signal just becomes high.	MAIN	R23
	2	Set an SSG level: 7.1 μV* (-90 dBm)			Low		Verify
BUSY	1	Set an SSG level : 18 μV* (–82 dBm)	MAIN	Connect an oscilloscope to CP2.	High	MAIN	R18
	2	Set an SSG level OFF.			Low		Verify
RECTANGLE WAVES	1	● Set an SSG as: Level : 3.2 mV* (-37 dBm) Deviation : ± 0.3 kHz	MAIN	Connect an oscilloscope to CP3.	1 kHz	MAIN	R59

^{*}This output level of a standard signal generator (SSG) is indicated as the SSG's open circuit.

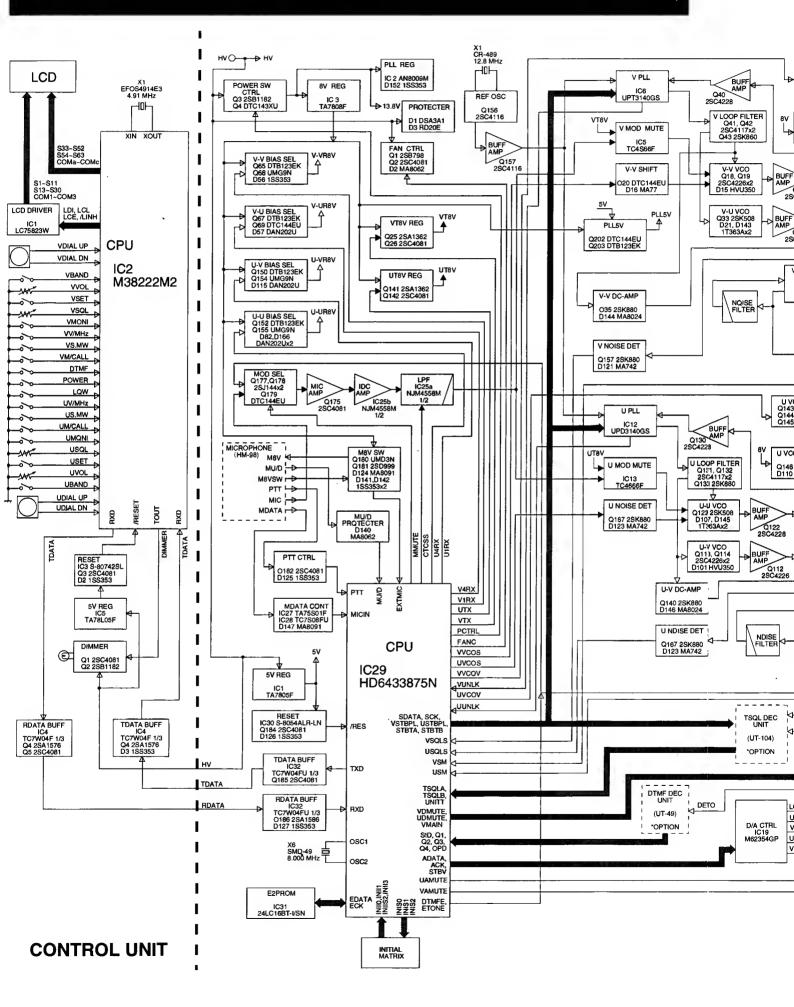
BOARD LAYOUT TOP VIEW

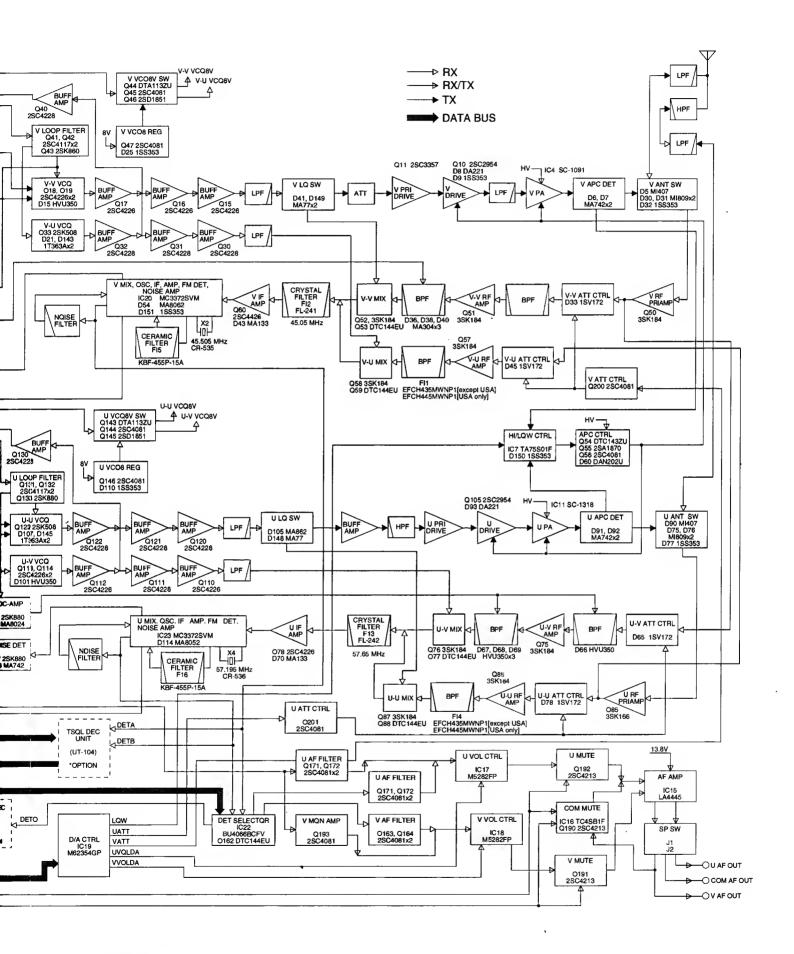


BOTTOM VIEW

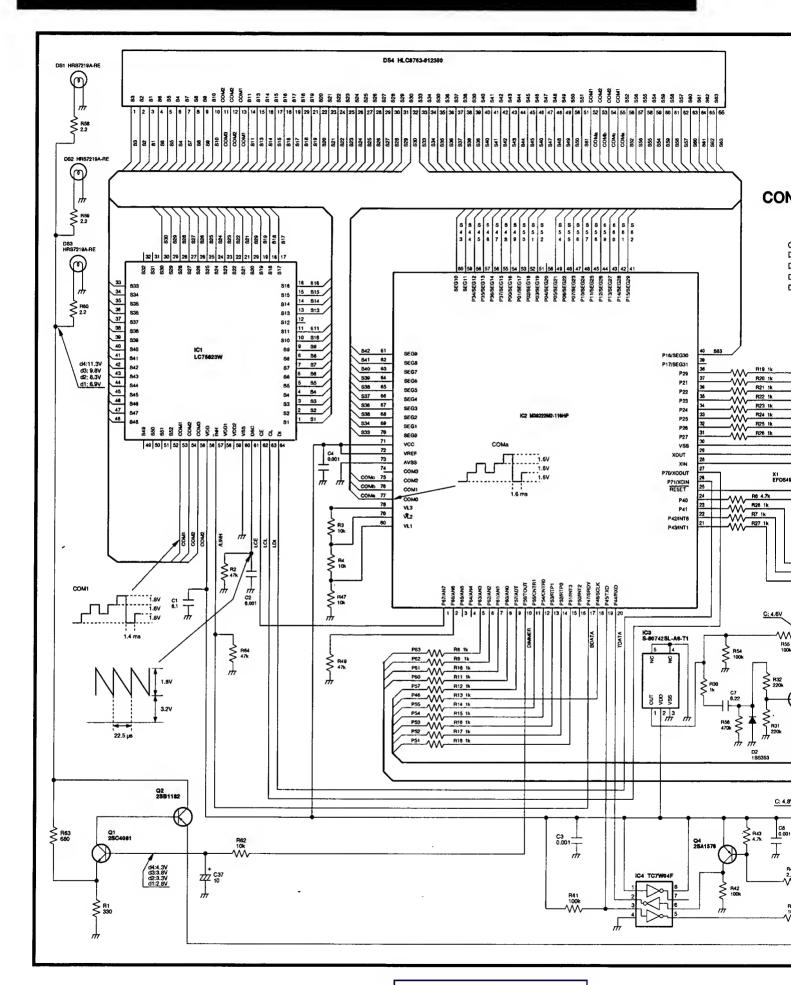


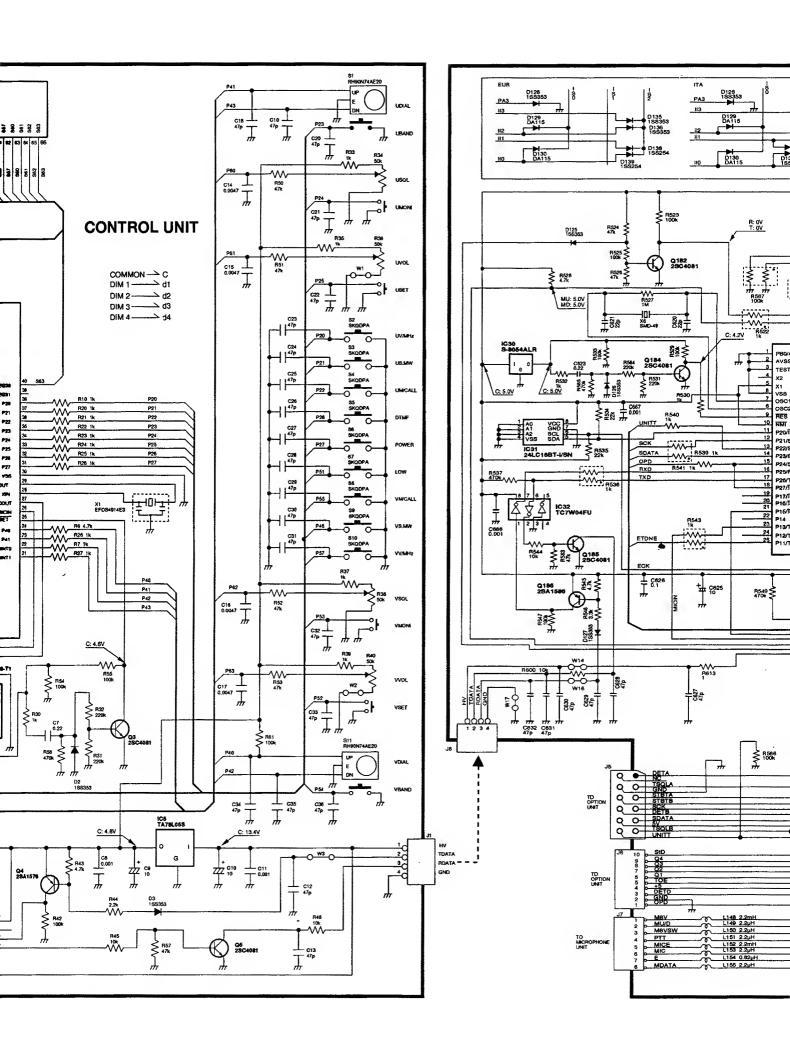
SECTION 11 BLOCK DIAGRAM

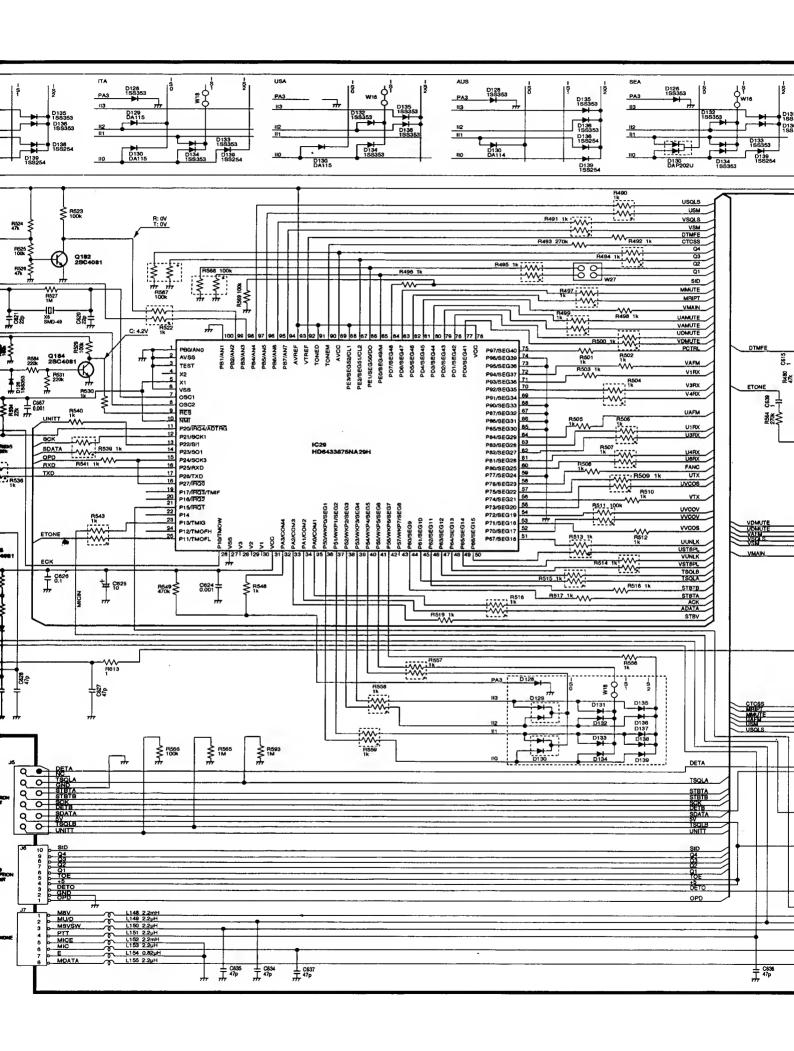


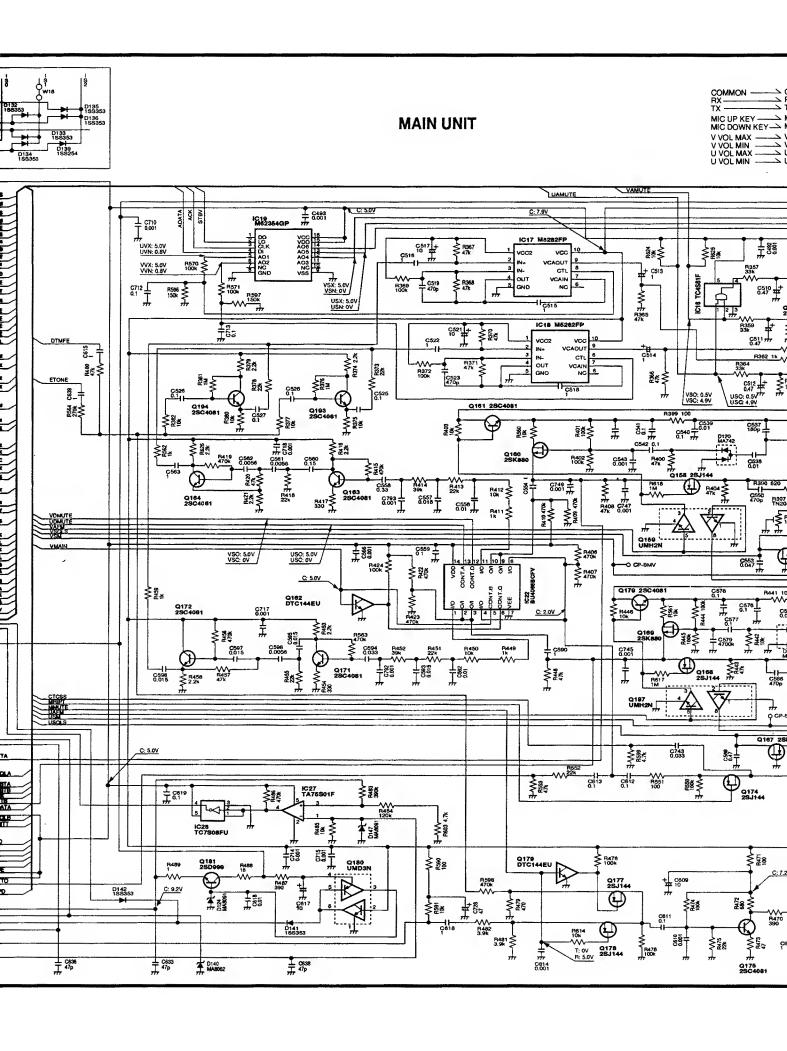


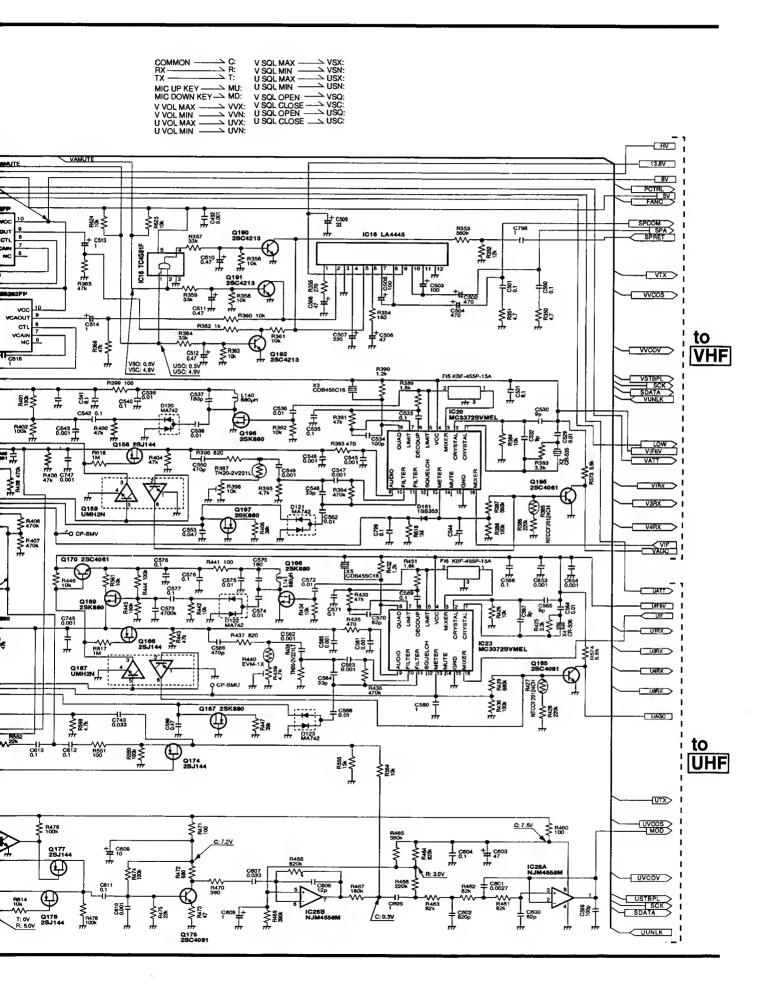
SECTION 12 VOLTAGE DIAGRAMS

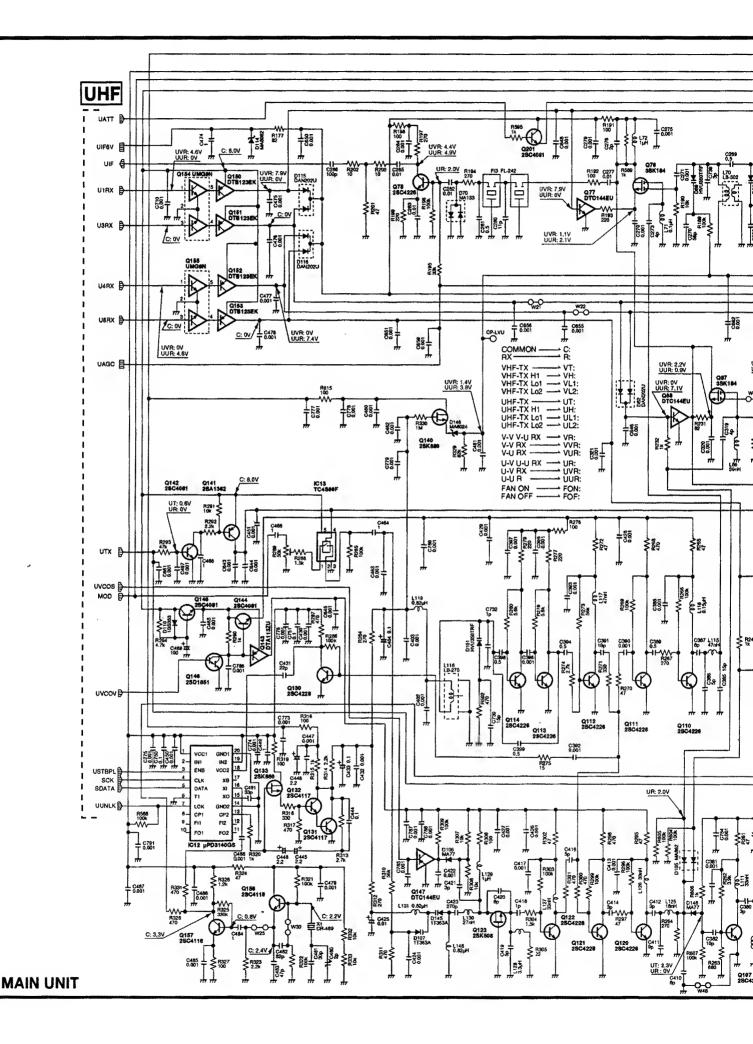


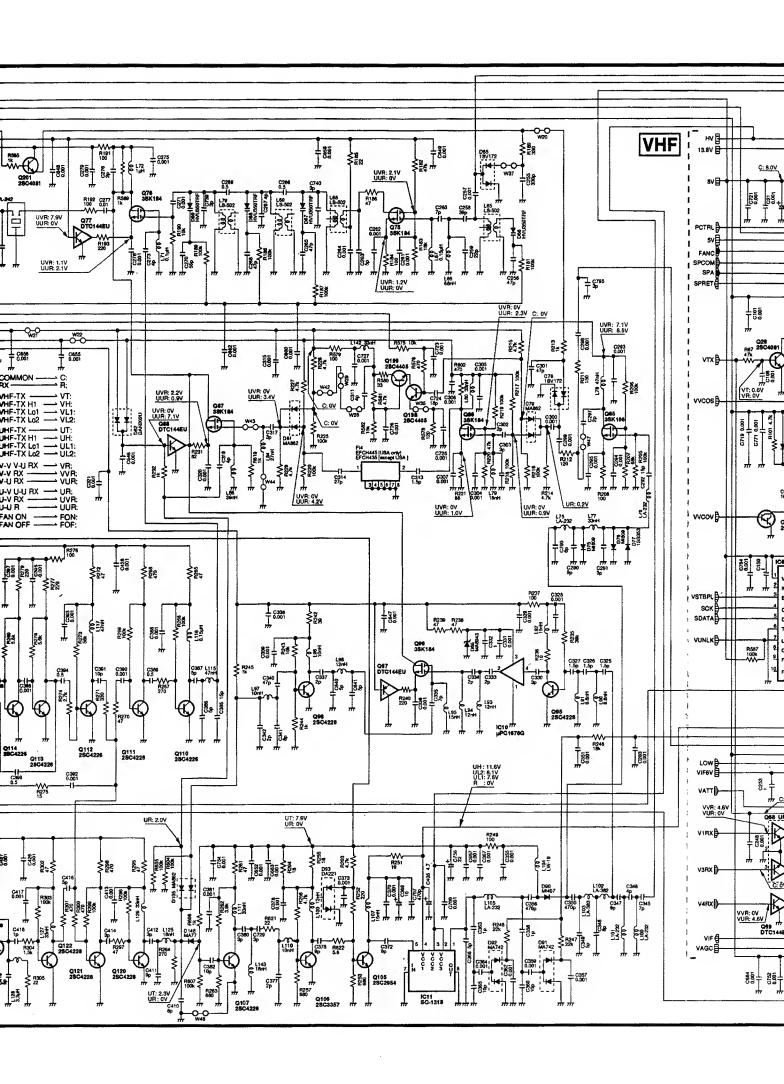


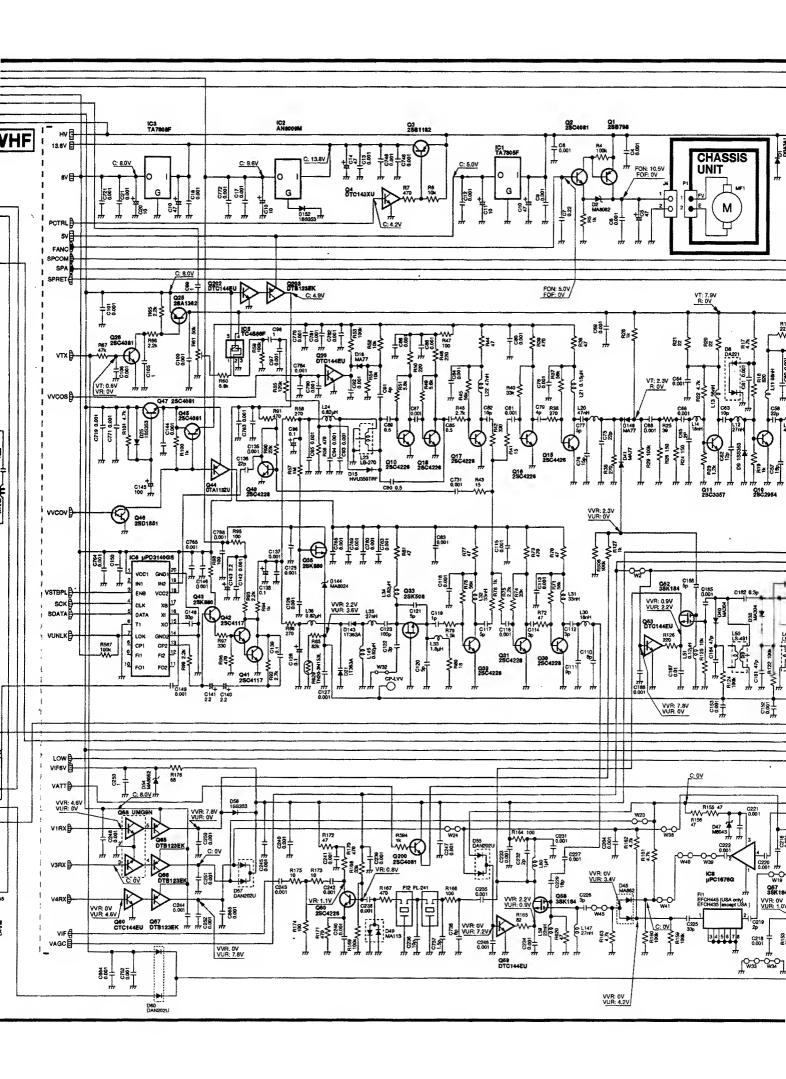


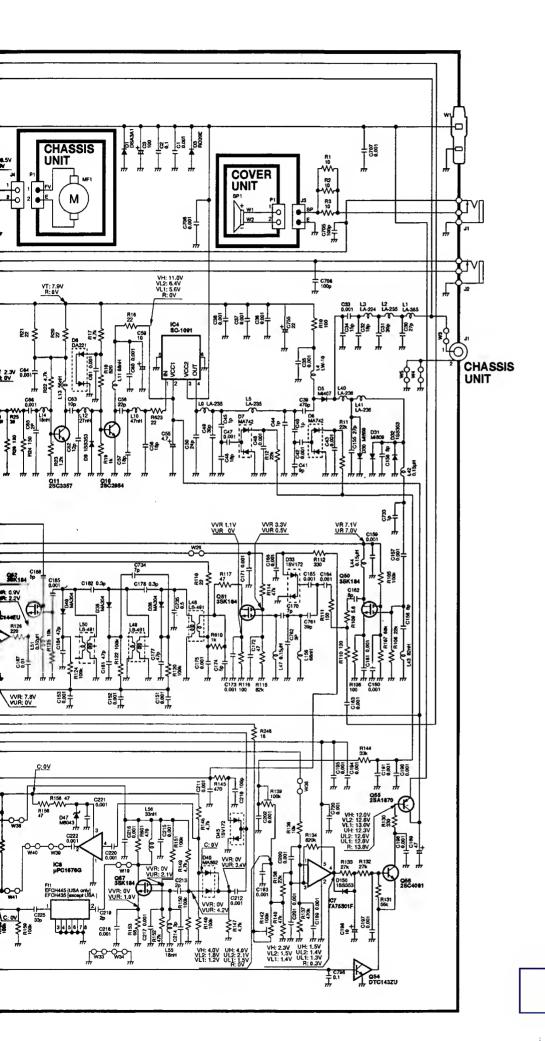












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